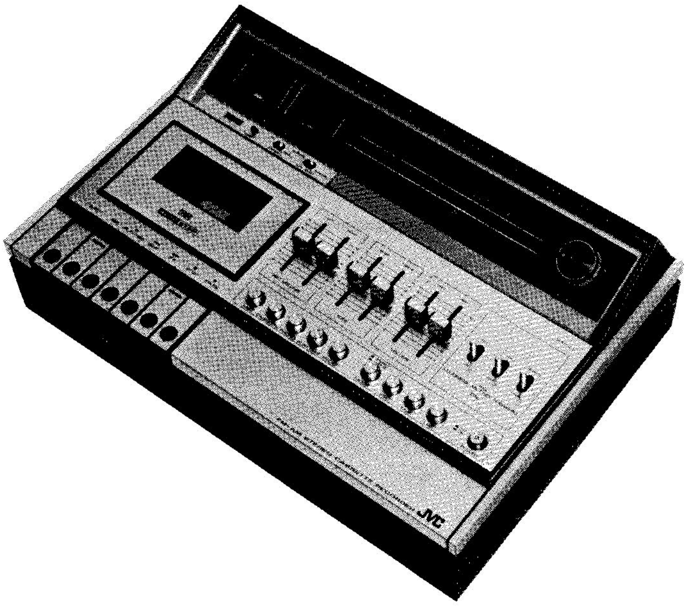
JVC
NIVICO

No. 1246

SERVICE MANUAL



MODEL 9470LS

FM/MW/LW STEREO RECEIVER

CASSETTE DECK

DIMENSIONS : H — 14.8cm, W — 43.6cm, D — 29cm **WEIGHT :** 9kg

SPECIFICATIONS

Semiconductors :	4ICs, 1 FET and 38 Transistors
Frequency Range :	FM 88~ 108MHz MW 540~1600kHz LW 150~ 350kHz
Intermediate Frequency :	FM 10.7MHz MW/LW 455kHz
Antenna System :	FM External 300Ω balanced MW/LW Ferrite core or external
Tone Controls :	Bass and Treble
Frequency Response :	25~30000Hz
Output Power :	15W + 15W RMS
Terminals :	MAIN & REMOTE speakers, FM & AM ext. antenna, DIN, Grounding, External tape deck (REC & PLAY), AUX, PHONO
Cassette Deck :	Stereo cassette deck, Automatic shut-off
Track System :	4-track 2-channel stereo
Tape Speed :	4.75cm/s
Bias :	AC erase and record
F.F. Time :	Within 80 sec (C-60)
Rewinding Time :	Within 80 sec (C-60)
Wow & Flutter :	Less than 0.2%
S/N :	More than 50dB
Power Source :	AC 110/220/240V 50/60Hz
Power Consumption :	70W (at 8Ω load) 100W (at 4Ω load)

VICTOR COMPANY OF JAPAN, LIMITED.

TO REMOVE CHASSIS

REMOVE BOTTOM COVER (Refer to Fig. 1)

1. Remove 7 screws **(1)~(7)** (SPSP3006RS) then, the bottom cover can be removed.
2. The wooden frame can be taken off after removing the bottom cover.

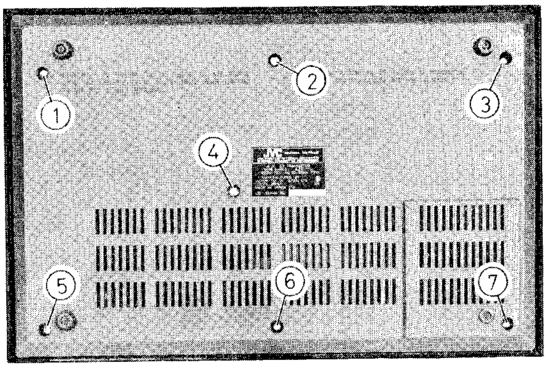


Fig. 1

REMOVE MAIN AMP. CHASSIS(Refer to Fig. 2)

1. Remove 3 screws **(8)~(10)** (SPSP3006ZS).
2. Remove the screw **(A)** (SPSP2606Z).
3. Disconnect the 4-pin plug **(B)** and 2 receptacles **(C)** & **(D)**.
4. Take the circuit board ass'y out of the chassis and disconnect the 3-pin socket two 4-pin socket and two 5-pin sockets, then the main amp. chassis can be removed.

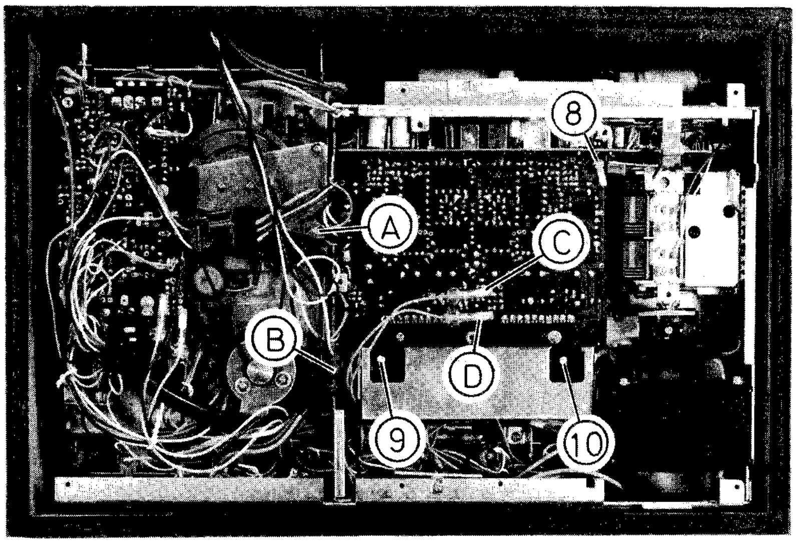


Fig. 2

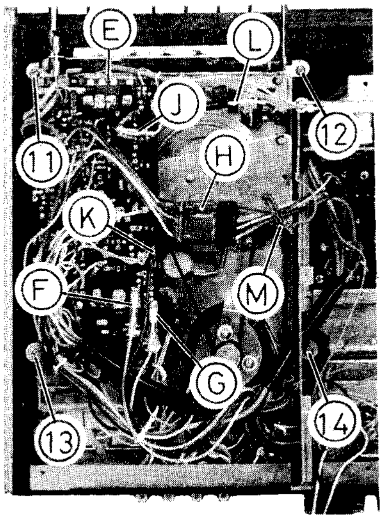


Fig. 3

REMOVE CASSETTE MECHANISM (Refer to Fig. 3)

1. Remove 4 screws **(11)** **(14)** (SBSB3010Z).
2. Disconnect the 4-pin plug **(E)**, two receptacles **(F)** & **(G)** and the 4-pin socket **(H)**.
3. Remove the wire **(J)** and desolder the wires **(K)** & **(L)**.
4. Release the 4-pin plug **(H)** from the cassette mechanism by straightening the wire clamp **(M)**, then the mechanism can be removed.

REMOVE MAIN CHASSIS (Refer to Fig. 4 & 5)

Remove 9 screws **(15)~(23)** (SBSB3010Z), then the main chassis can be removed from the front cabinet.

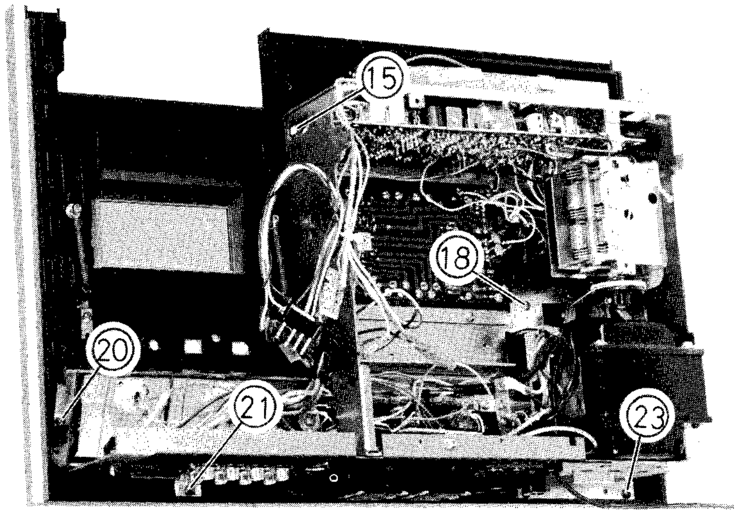


Fig. 4

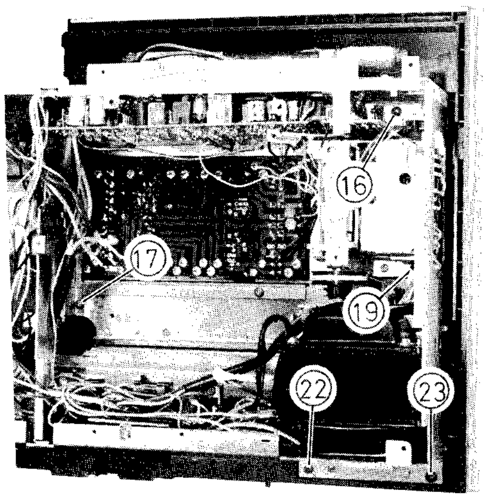


Fig. 5

TO STRING DIAL CORD (Refer to Fig. 6)

1. Set the variable capacitor on maximum.
2. Cord length : 0.7ϕ X 1270mm
3. Attach the spring to the dial drum. String one side of the looped cord in accordance with the numerical order (1 ~3) and wind the other side of the cord round the drum with alphaberical order (a ~ f), then lead the cord to the outside of the chassis through the opening of the chassis by fixing it not to loose.
4. String the cord in accordance with the numerical order (4~9), and finally string the cord to the roller (10).
5. For adjusting the cord tension, swing the roller bracket (A) by unscrewing the screws.
6. Attach the needle to the cord.

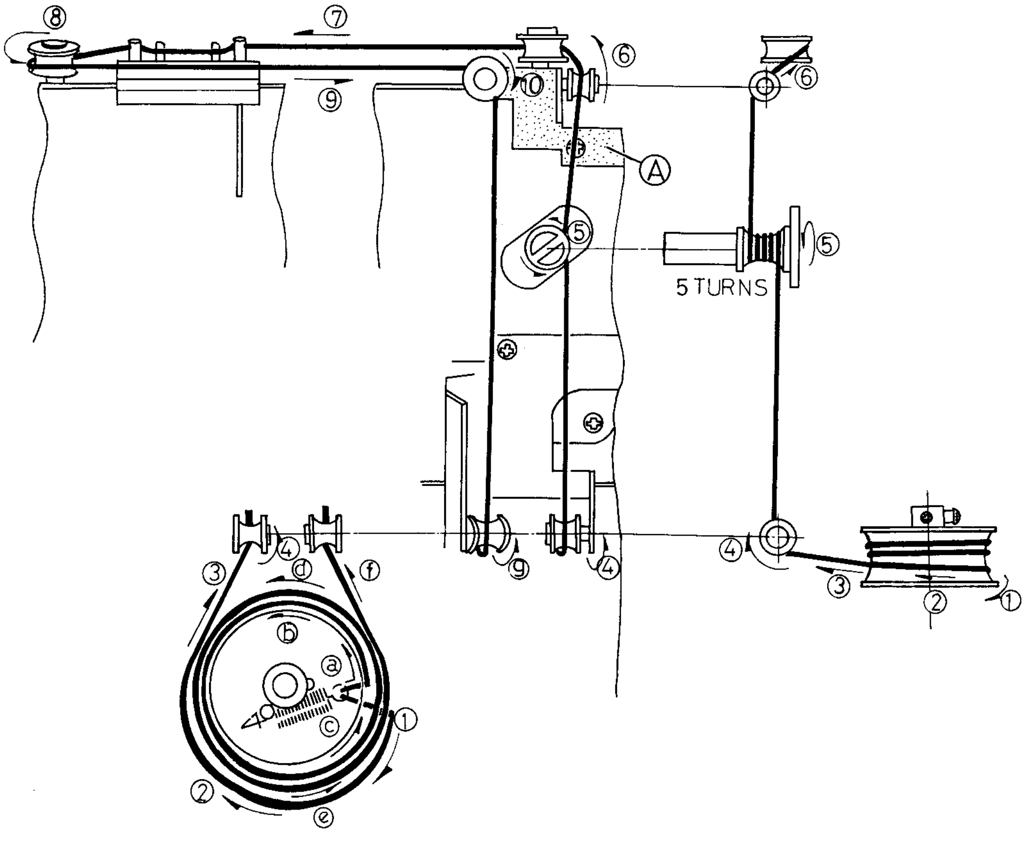


Fig. 6

TO ALIGN THE SET

Power Source : AC 220V (or 110V)
Output Measuring : Speaker terminal

AM IF & RF ALIGNMENT (Refer to Fig. 10)

1. Depress the RADIO button.
2. Set the Volume control to the maximum and the Tone controls to center position.
3. Input (S.S.G.) : Modulation 400Hz 30%.

Step	Band	Input Signal		Place to be aligned	Set V. Capacitor to
		Frequency	Given to		
1	MW (IF)	455kHz	Loop Antenna	L10, VR1	Minimum
2		Adjust L10 & VR1 for no further improvement.			
3	MW	520kHz	Loop Antenna	L8	Maximum
4		1650kHz		C11	Minimum
5		Repeat the Step 3 & 4.			
6		600kHz	Loop Antenna	L6	600kHz Signal
7		1400kHz		C9	1400kHz Signal
8		Repeat the Step 6 & 7, and adjust for no further improvement.			
9	LW	145kHz	Loop Antenna	L9	Maximum
10		360kHz		C12	Minimum
11		Repeat the Step 9 & 10.			
12		150kHz	Loop Antenna	L7	150kHz Signal
13		350kHz		C10	350kHz Signal
14		Repeat the Step 12 & 13, and adjust for no further improvement.			

FM IF & DISCRIMINATOR ALIGNMENTS

1. Set the MODE selector to MONO.
2. Set the VOLUME to minimum and tune in the maximum frequency where no signal comes in.
3. Connect the clip of the TV. sweep generator's IF/VF OUTPUT lead to the test point TP1 and the other clip to the "E" (Refer to Fig. 10).
4. Connect the scope terminal of the sweep generator to H. INPUT of oscilloscope.
5. Connect the V. INPUT terminal to the test point TP4 (Refer to Fig. 10).
6. IF Alignment
   a. Align the L14 so that the wave mode will be appeared on either side of the flyback line. (Refer to Fig. 7 & 8).
   b. Align the L5, 11, 13 so that the maximum sensitivity and symmetrical wave mode will be obtained setting the marker 10.7MHz on the peak. (Refer to Fig. 8)
7. Discriminator Alignment
   Align the L13, 14 so that the symmetrical "S" curve will be obtained setting the marker 10.7MHz on the center of the "S" curve. (Refer to Fig. 9)

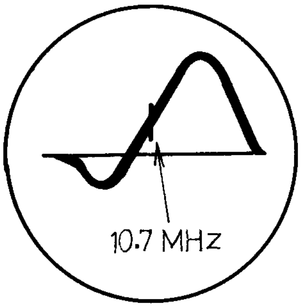


Fig. 7

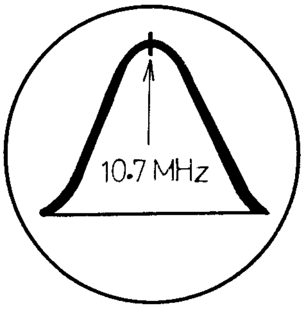


Fig. 8

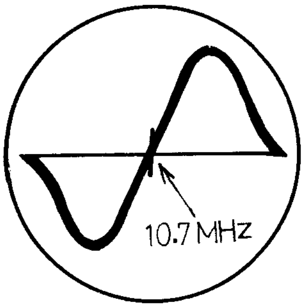


Fig. 9

FM RF ALIGNMENT

Input (S.S.G.) : Use 75Ω terminal modulation 1000Hz modulated to 22.5kHz deviation.

Step	Band	Input Signal		Place to be aligned	Set V. Capacitor to
		Frequency	Given to		
1	FM	87.5MHz	“A” (Refer to Fig.10)	L4	Maximum
2		109MHz		C8	Minimum
3		Repeat the Step 1 & 2.			
4		88MHz	“A” (Refer to Fig.10)	L2	88MHz Signal
5		106MHz		C6,7	106MHz Signal
6		Repeat the Step 4 & 5, and adjust for no further improvement.			

FM MPX ALIGNMENT (Refer to Fig. 10)

Input (S.S.G.) :	98MHz 1000μV
MODE selector :	STEREO

1. 19kHz stage alignment
   a. Connect the V.T.V.M. to the test point TP3.
   b. Feed the FM MAIN signal or PILOT signal (19kHz) to the FM antenna terminal.
   c. Adjust L15, 16 for maximum output.
2. 38kHz stage alignment
   a. Connect the V.T.V.M. to TP6 or TP7.
   b. Feed the FM stereo SUB signal.
   c. Adjust L16 for maximum output.
3. Separation alignment
   a. Connect the V.T.V.M. to TP6 (Right channel output).
   b. Feed the LEFT channel signal.
   c. Adjust the VR2 for minimum output.
   d. Connect the V.T.V.M. to TP7 (Left channel output).
   e. Feed the RIGHT channel signal.
   f. Adjust the VR2 for minimum output.

PARTS ARRANGEMENT FOR ALIGNMENT

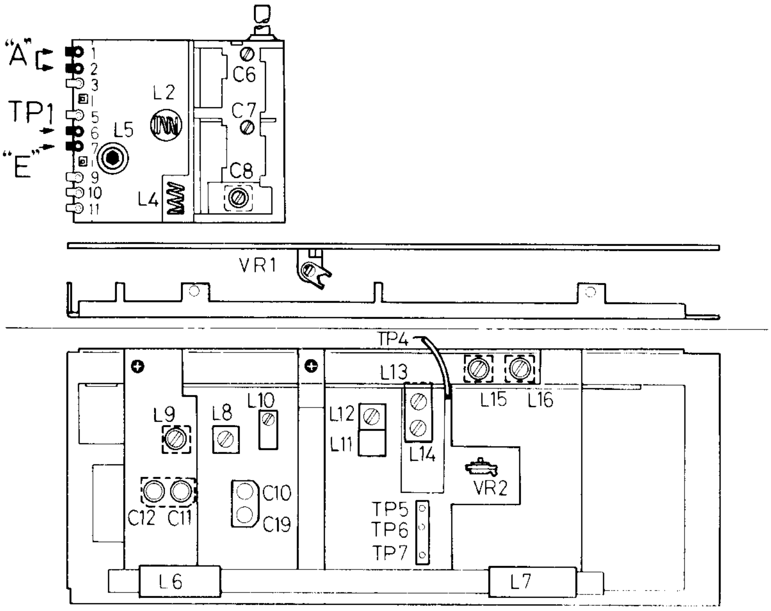

"A"
TP1
"E"
1
2
3
4
5
6
7
8
9
10
11
L2
L5
L4
C6
C7
C8
VR1
TP4
L13
L15
L16
L9
L8
L10
L12
L11
L14
VR2
C12
C11
C10
C19
TP5
TP6
TP7
L6
L7

Fig. 10

TO REPLACE HEAD (Refer to Fig. 11)

ERASING HEAD

Remove 2 screws **(A)** & **(B)**, then the head can be replaced.

PLAY/REC HEAD

Remove 2 screws **(C)** & **(D)**, then the head can be replaced.

NOTE : 1. Do not touch the head with a magnetized implement such as screwdriver, or its performance will be adversely affected.

2. Avoid overheating, when soldering signal cord to the head.

TO ADJUST HEAD ANGLE (AZIMUTH)

When replace the play/rec head, adjust the head angle.

1. Open the cassette compartment cover.
2. Remove the Head Cover by sliding it into the compartment (Refer to Fig. 12).
3. Connect the V.T.V.M. to the speaker terminals.
4. Playback the standard tape for angle adjustment (azimuth).
5. Adjust the head angle by turning the screw **(C)** minutely for maximum output. (Refer to Fig. 11 & 13).

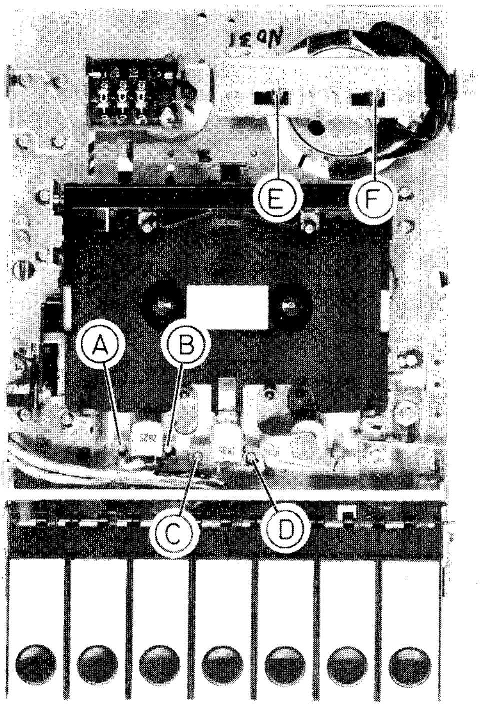


Fig. 11

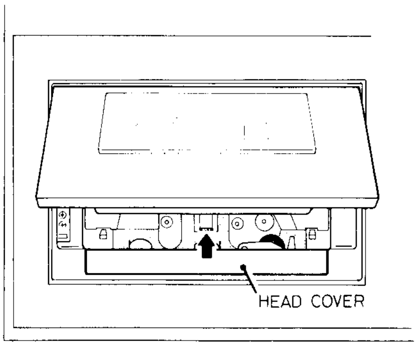


Fig. 12

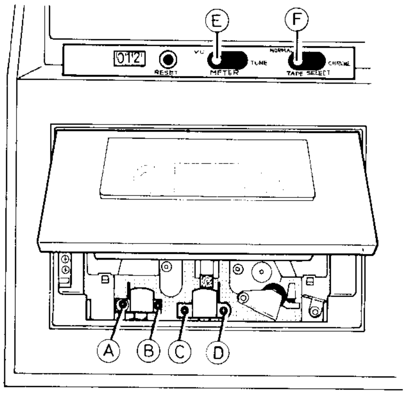

Ⓔ
Ⓕ
012
RESET
METER
TUNE
NORMAL
CHROME
TAPE SELECT
Ⓐ
Ⓑ
Ⓒ
Ⓓ

Fig. 13

TO ALIGN BIAS FREQUENCY

1. Desolder the copper shield of the signal cable from the erasing head and solder a 10Ω resistor between the copper shield and the printed circuit board (Refer to Fig. 14).
2. Connect the V.T.V.M. and the Frequency Counter to the both leads of the 10Ω resistor.
3. Set the METER switch **(E)** to BEAT CUT position and the TAPE SELECTOR switch **(F)** to NORMAL position (Refer to Fig. 11 & 13).
4. Align the L301 so that the bias frequency will become 58kHz. (Refer to Fig. 15).
5. Remove the 10Ω resistor, and solder the copper shield of the signal cable to it's orignal position.

TO ALIGN BIAS VOLTAGE

1. Open the circuit by desoldering 2 jumping wires on the conductor side of the printed circuit board (Refer to Fig. 14).
2. Connect the V.T.V.M. to the test point TP101 and adjust VR106 so that the bias voltage will become 520mV (Refer to Fig. 15).
3. Connect the V.T.V.M. to the test point TP201 and adjust VR206 so that the bias voltage will become 600mV (Refer to Fig. 15).
4. Short the circuit by soldering 2 jumping wires on the conductor side of the printed circuit board (Refer to Fig. 14).

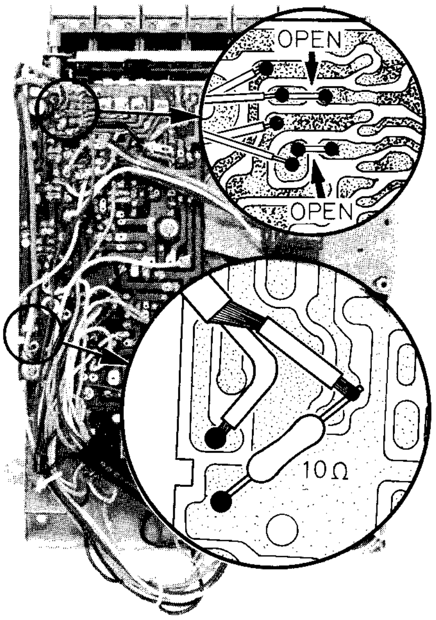


Fig. 14

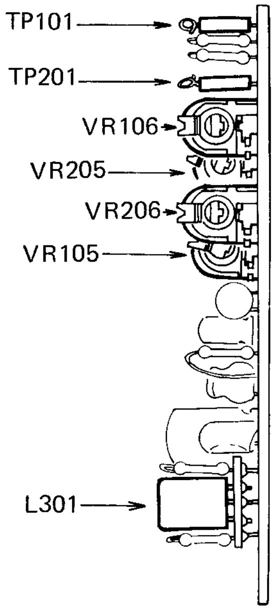


Fig. 15

TO ALIGN LEVEL OF VU METER

1. Lefet-channel VU meter
   a. Feed 1kHz 60mV signal to the left-channel AUX terminal.
   b. Adjust VR105 so that the VU meter indicates 0VU. (Refer to Fig. 15).
2. Right-channel VU meter
   a. Feed 1kHz 60mV signal to the right-channel AUX terminal.
   b. Adjust VR205 so that the VU meter indicates 0VU. (Refer to Fig. 15).

TO CONVERT POWER SUPPLY VOLTAGE

When changing the power supply voltage, change the connection of the power transformer as illustrated in Fig. 16.

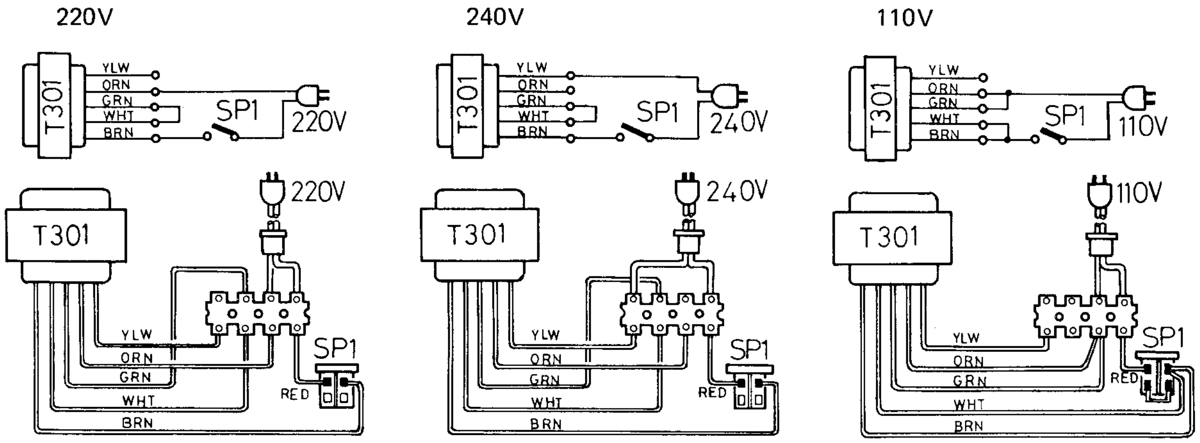

220V
240V
110V
T301
YLW
ORN
GRN
WHT
BRN
SP1
RED
220V
240V
110V

Fig. 16

OUTLINE DRAWING OF TRANSISTOR & DIODES

Symbol	Name	Fig.
X1	3SK30	A
X2	2SC535	B
X3	2SC1342	B
X4	2SC930(D)	C
X5,6	2SC929(D)	C
X7,8,110,210,213	2SC537(D)	C or D
X9	2SA659(E)	D
X101~103,201~203	2SC693(FU)	C or D
X104~109,111,112,204~109,211,212,302,303	2SC536F	C or D
X301,306	2SC1173(E)	D
X304	2SC933(F)	D
X305	3SD331(D)	E
D1	ITT410	F
D2~8,107,108,207,208	1S188FM	G
D101~106,201~206	DS442	H
D301~304	V06(C),(E)	J
D305~308	10D1	K
D309	HR5A	L
D310	SZ13	M

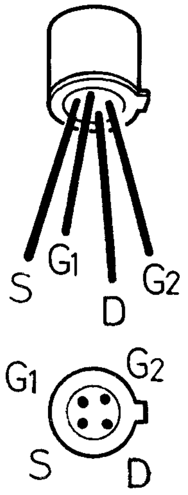

S
G1
D
G2
G1
G2
S
D

Fig. A

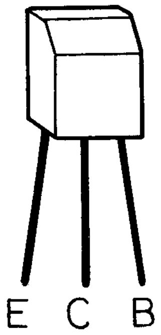


Fig. B

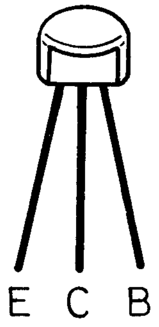


Fig. C

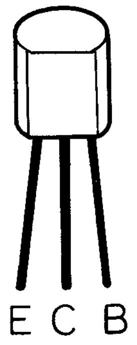


Fig. D

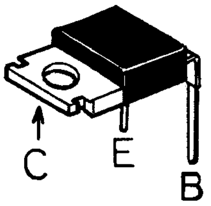


Fig. E

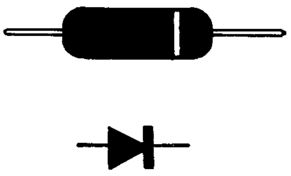


Fig. F

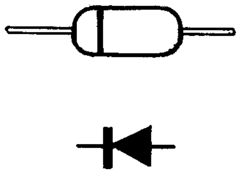


Fig. G

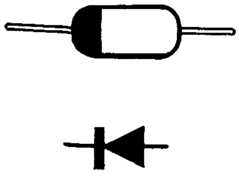


Fig. H

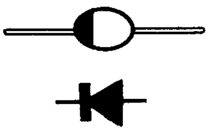


Fig. J

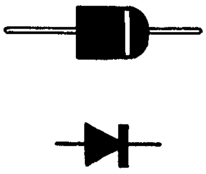


Fig. K

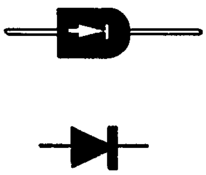


Fig. L

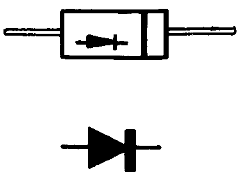


Fig. M

EQUIVALENT SCHEMATIC DIAGRAM OF IC

IC1 LA1201

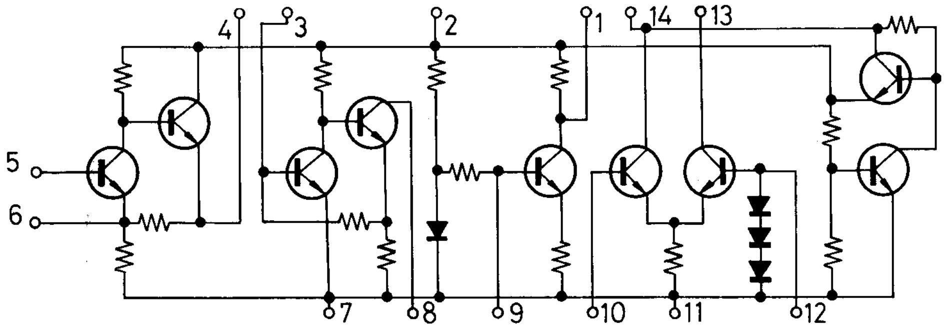

4
3
2
1
14
13
5
6
7
8
9
10
11
12

Fig. 17

IC2 LA3301

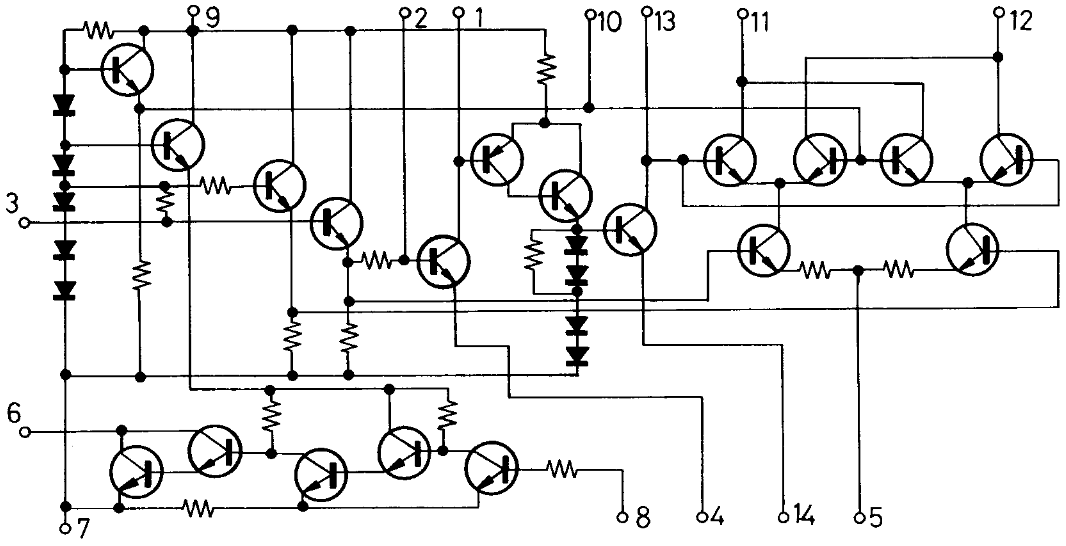

9
2
1
10
13
11
12
3
6
7
8
4
14
5

Fig. 18

IC101,201 VC5004

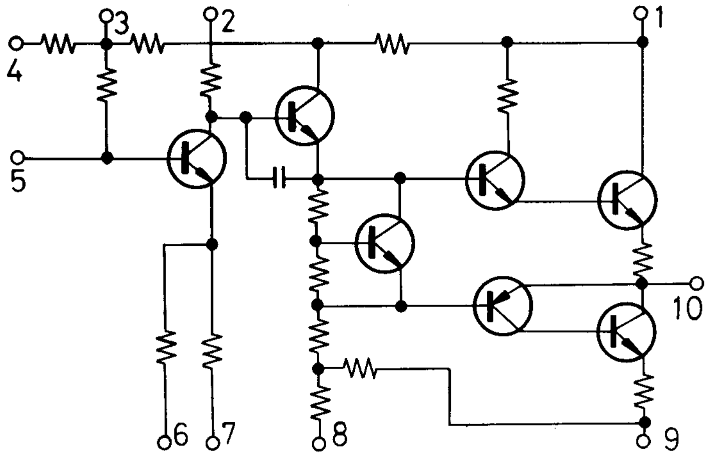

3
2
1
4
5
10
6
7
8
9

Fig. 19

Terminal Location

IC1 LA1201

IC2 LA3301

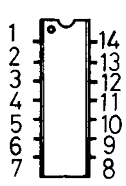

1
2
3
4
5
6
7
14
13
12
11
10
9
8

Fig. 20 -A

IC101,201

VC5004

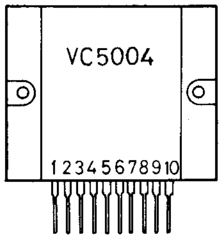

VC5004
1 2 3 4 5 6 7 8 9 10

Fig. 20-B

PARTS ARRANGEMENT ON PRINTED CIRCUIT BOARD

FM RF SECTION

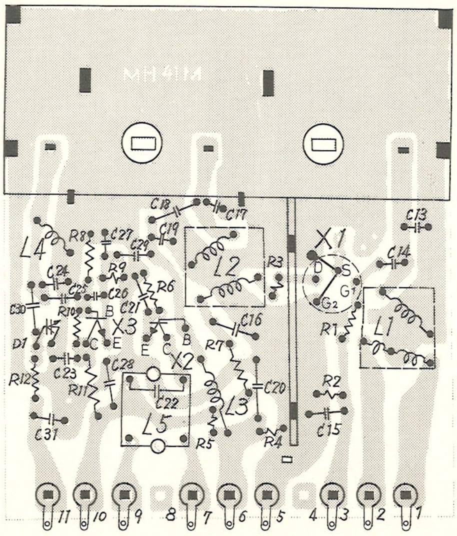

MH4114
L4
R8
C27
C28
C19
C18
C17
C13
X1
C14
L2
R3
D
S
G1
G2
R9
R6
C21
C26
C25
C24
C30
R10
B
X3
C
E
D1
C16
R1
L1
C28
X2
R7
C23
R11
R12
C20
C22
L5
L3
R2
C31
R5
R4
C15
11
10
9
8
7
6
5
4
3
2
1

Fig. 21

IF & MPX SECTION

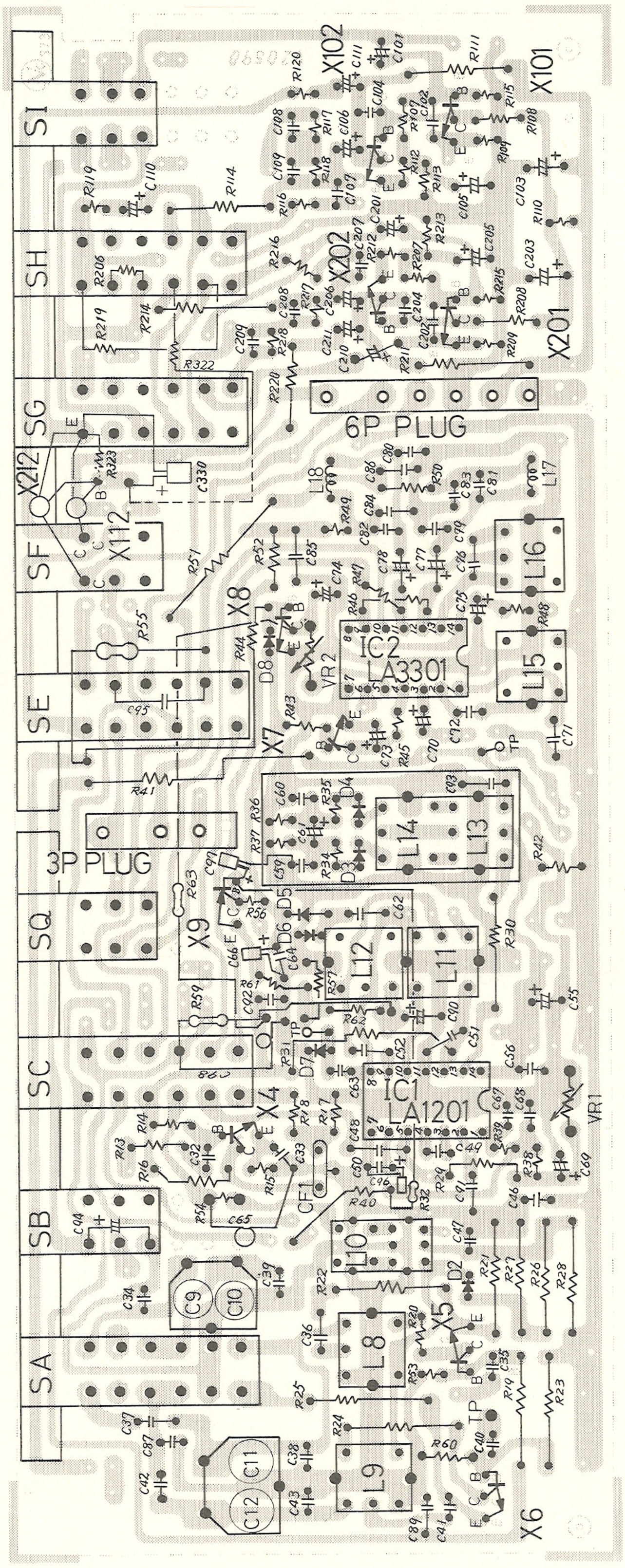
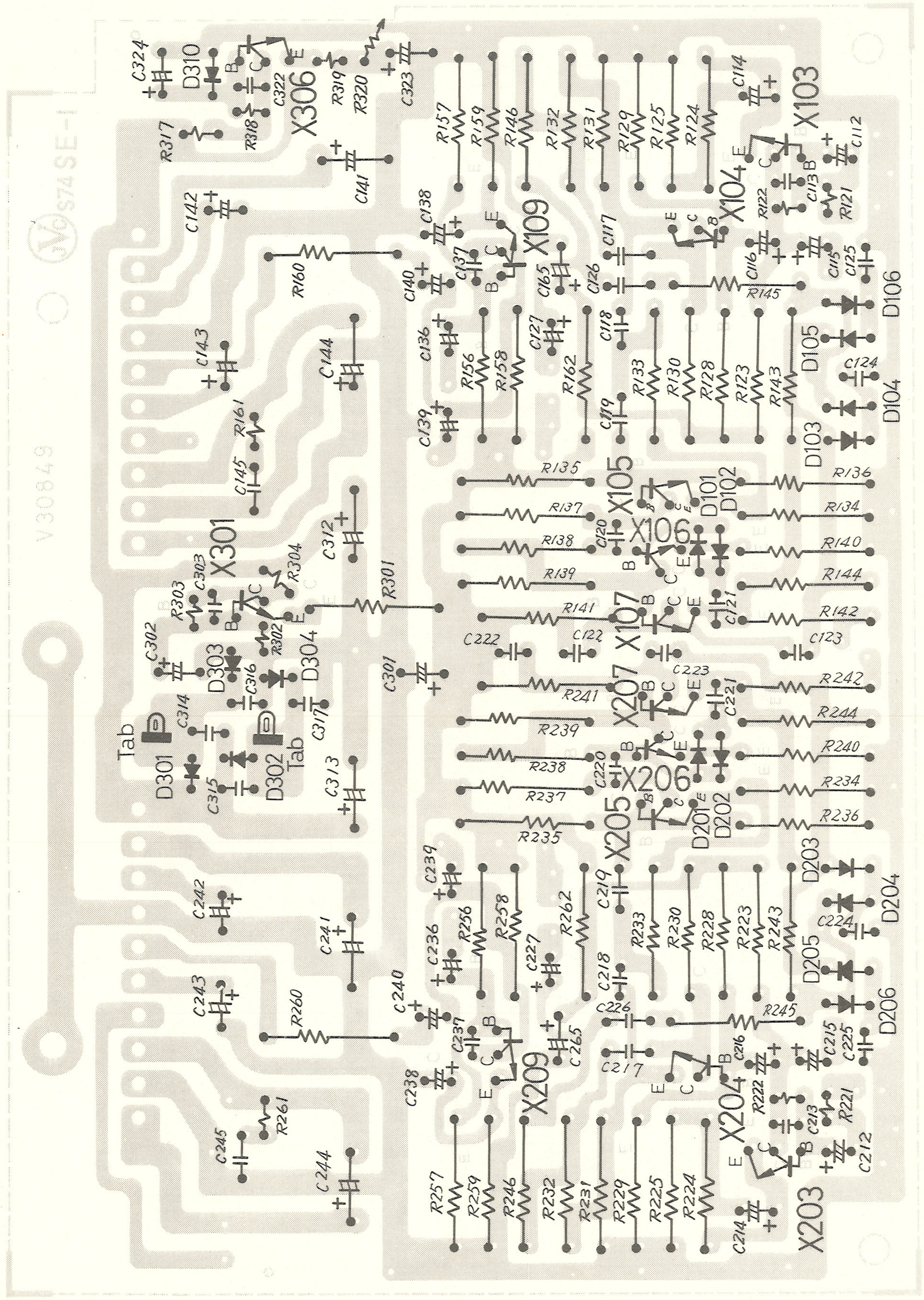

SI
SH
SG
SF
SE
3P PLUG
SQ
SC
SB
SA
6P PLUG
X101
X102
X201
X202
X212
X112
X8
X7
X9
X4
X5
X6
IC2
LA3301
IC1
LA1201
VR1
VR2
CF1
L8
L9
L10
L11
L12
L13
L14
L15
L16
L17
L18
C9
C10
C11
C12
TP

Fig. 22

PARTS ARRANGEMENT ON PRINTED CIRCUIT BOARD

PRE & MAIN AMP. SECTION


JVC S74SE-1
V30849
C324
D310
X306
C322
R319
R320
C323
R317
R318
C141
C142
R160
C143
C144
R161
C145
X301
C312
R304
C303
R303
R302
R301
C302
D303
C316
D304
C301
Tab
C314
C317
D301
D302
Tab
C315
C313
C242
C241
C243
R260
C240
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C114
X103
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R122
R121
C138
X109
C137
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C116
R145
C115
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D106
C136
C127
C118
R156
R158
R162
R133
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D105
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D104
C139
C119
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R135
X105
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D102
R136
R137
R134
C120
X106
R138
R140
R139
R144
C121
R141
X107
R142
C222
C122
C123
C223
R241
X207
C221
R242
R239
R244
C220
X206
R238
R240
R237
R234
X205
D201
D202
R235
R236
C239
D203
C219
D204
R256
R258
R262
R233
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R228
R223
R243
C224
C236
C227
C218
D205
C226
R245
D206
C237
X209
C265
C216
C215
C225
C238
C217
X204
R222
R221
C213
C212
R257
R259
R246
R232
R231
R229
R225
R224
C214
X203
B
C
E

Fig. 23

PARTS ARRANGEMENT ON PRINTED CIRCUIT BOARD

VOLUME & TONE CONTROL SECTION

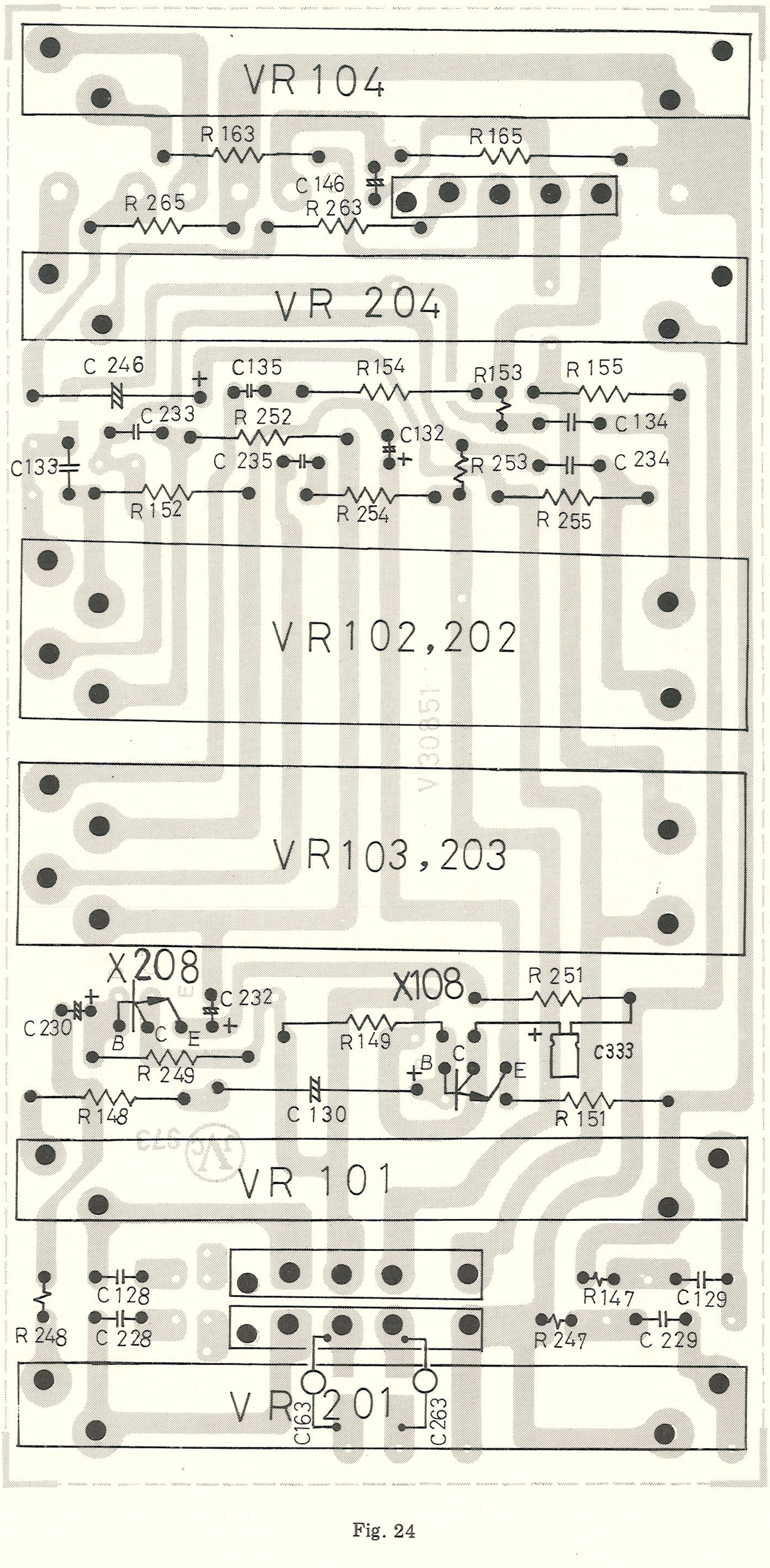
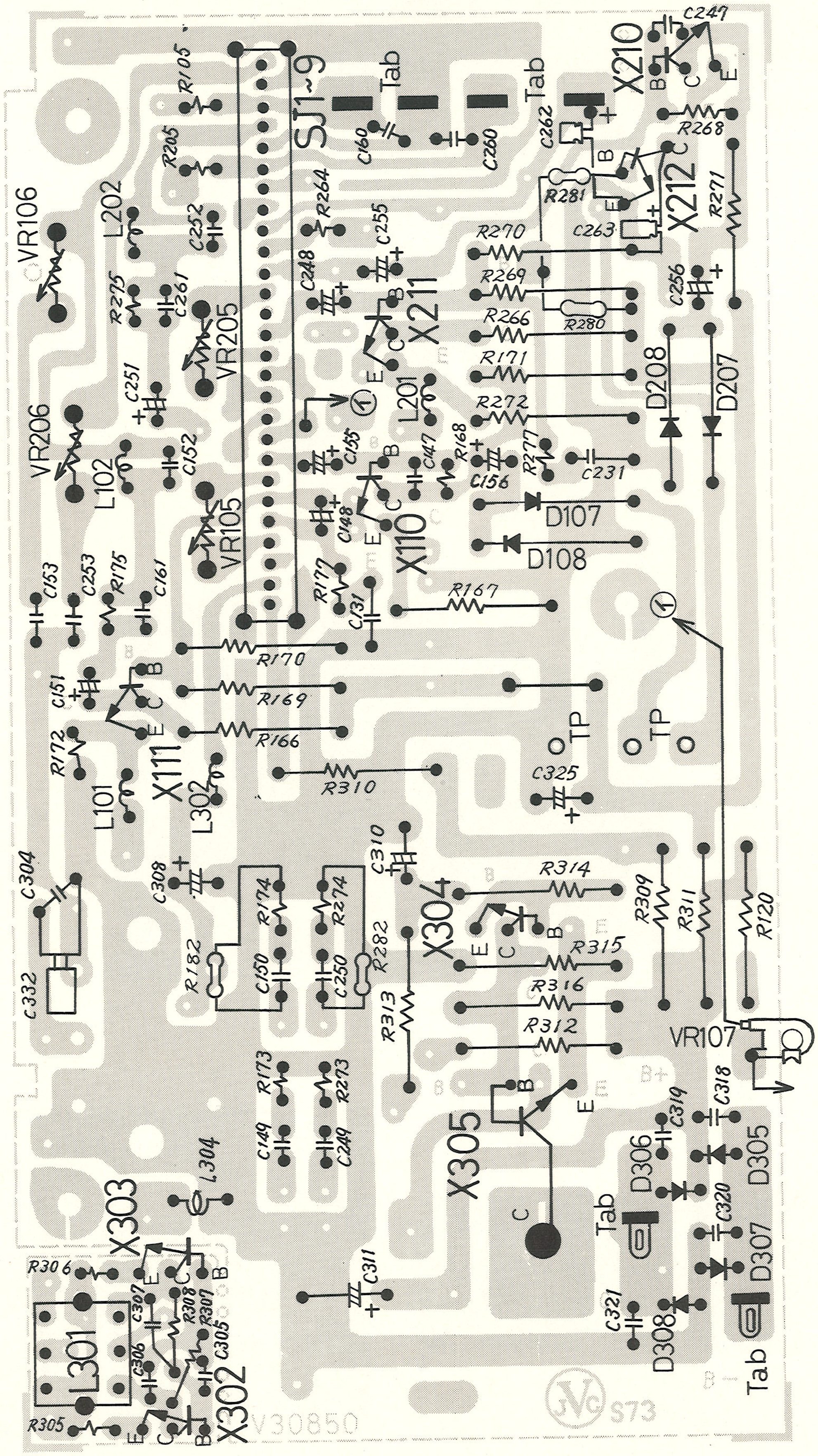

VR 104
R 163
R 165
C 146
R 265
R 263
VR 204
C 246
C135
R154
R153
R 155
C 233
R 252
C 134
C132
C133
C 235
R 253
C 234
R 152
R 254
R 255
VR102,202
V30851
VR103,203
X208
C 232
X108
R 251
C230
B
C
E
R149
C333
R 249
B
C
E
R 148
C 130
R 151
VR 101
C 128
R147
C129
R 248
C 228
R 247
C 229
VR 201
C163
C263

Fig. 24

PARTS ARRANGEMENT ON PRINTED CIRCUIT BOARD

BIAS OSC.


VR106
L202
R105
R205
C252
R264
SJ1~9
Tab
C160
C260
Tab
C262
X210
C247
R268
R281
X212
R271
C263
R270
R269
R266
R280
R171
R272
R277
C231
C256
D208
D207
C255
C248
X211
L201
C155
C147
R168
C156
D107
D108
X110
C148
R275
C261
VR205
C251
VR206
L102
C152
VR105
C153
C253
R175
C161
R177
C131
R167
R170
R169
R166
C151
X111
R172
L101
L302
R310
TP
TP
C325
C304
C308
C332
R182
C150
R174
R274
C250
R282
C310
X304
R314
R309
R311
R120
R315
R316
R312
R313
VR107
R173
R273
C149
C249
X305
C319
C318
D306
D305
L304
X303
Tab
C320
D307
R306
C307
R308
R307
C311
C321
D308
Tab
L301
C306
C305
X302
R305
V30850
S73
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B−

Fig. 25

DISASSEMBLY DIAGRAM OF CABINET

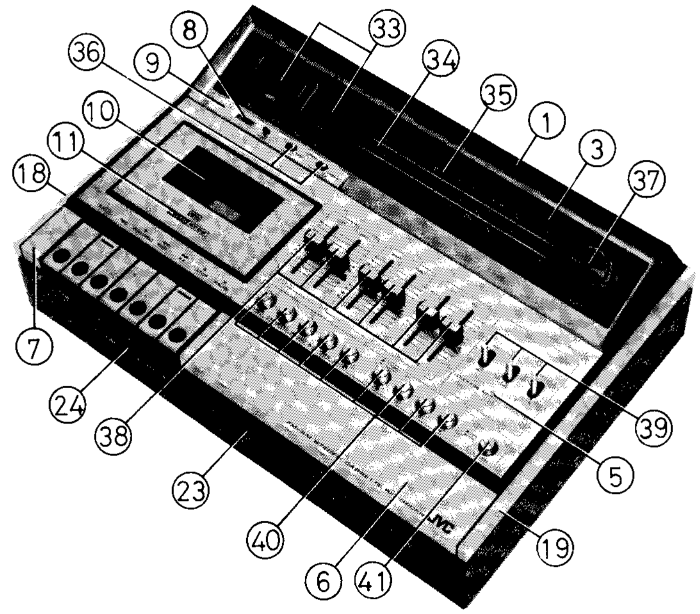

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Fig. 26

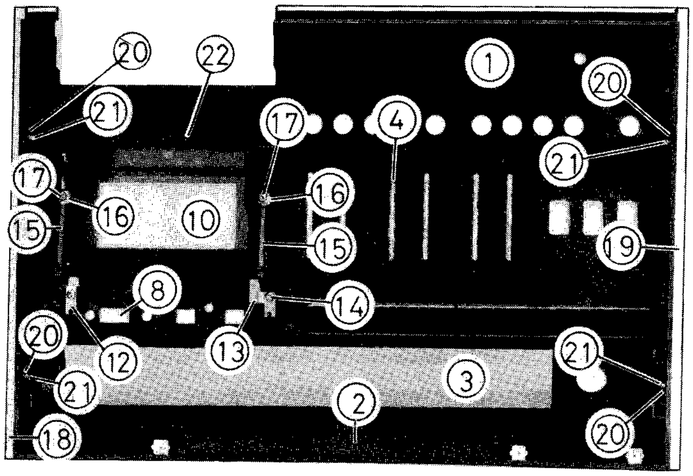

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Fig. 27

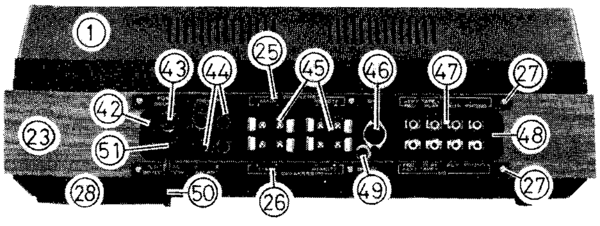

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Fig. 28

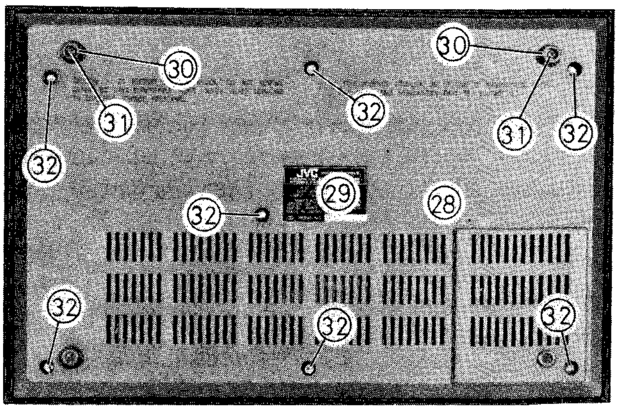

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Fig. 29

PARTS LIST OF CABINET (Refer to Fig. 26~29)

Dwg. No.	Parts No.	Parts Name	Remarks
1	V10196-A	Front Cabinet Sub Ass'y	
2	47115-27	Saran Net	Glued
3	V30847-1	Lens	〃
4	V43739-1	Dust Pad	〃
5	V20587-1	Front Panel	〃
6	V30839-3	Plate	〃
7	V43616-1	〃	〃
8	V43014-1	Counter Lens	〃
9	V43615-3	Plate	〃
1~9	———	Front Cabinet Ass'y	
10	V20580-1	Cassette Door	
11	V43738-1	Plate	Glued
12	V43199-1	Door Holder	
13	V43200-1	〃	
14	SBSB3006Z	Screw	
15	V43617-1	Spring	
16	EYB3006	Eylet	
17	SBSB3012Z	Screw	
18	V30843-1	Fitting	Left
19	V30843-2	〃	Right
20	WNS3000Z	Washer	
21	SPSP3006Z	Screw	
22	V43537-1	Head Cover	
23	VW1077-1	Wood Square	
24	V30831-1	Jack Cover	
25	V30857-3	Terminal Plate	
26	V30857-4	〃	
27	MRBP2710N	Screw	
23,25~27	VW1077-00A	Wood Square Ass'y	
28	V10197-1	Back Cover	
29	V42041-16	Name Plate	Glued
30	QZF1508-001	Foot	
31	SDBP3010BS	Screw	
28~31	———	Back Cover Ass'y	
32	SPSP3006RS	Screw	
33	V03089-3	Level Meter	
34	V20588-1	Dial Scale	
35	V43751-A	Needle Ass'y	
36	QSS0034-001	Slide Switch	SN,SR
37	V43643-A	Knob Ass'y	
38	V43554-A	Knob Ass'y	
39	QSL2235-003	Lever Switch	SL,SM,SK
40	V43754-A	Knob Ass'y	
41	VSU1130-00A	Push Switch Ass'y	SP1
42	V30848-1	Terminal Cover	
43	QMG0301-002	Fuse Holder	
44	Q30150-002	Terminal Board Ass'y	
45	E03410-001	4P Push Terminal Ass'y	
46	Q03967-1	DIN Socket Ass'y	J301
47	E0778-80	8P Jack Ass'y	J102~105, 202~205
48	SDBP3006BS	Screw	
49	V43969-1	Special Screw	
50	QMP3800-244	Power Cord with Plug	SEV type approved
50	QMP9014-001	〃	SEMCO type approved
50	QMP7800-244	〃	Continental type plug
51	V40976-3	Power Cord Bushing	

MAIN PARTS LOCATION

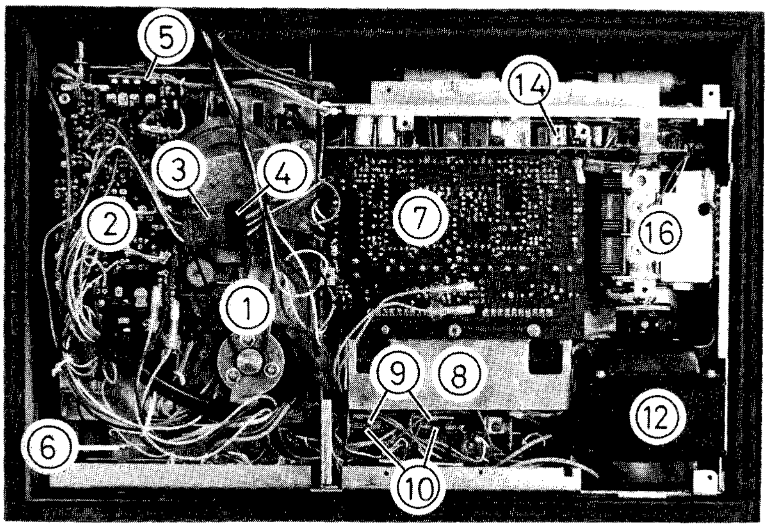


Fig. 30

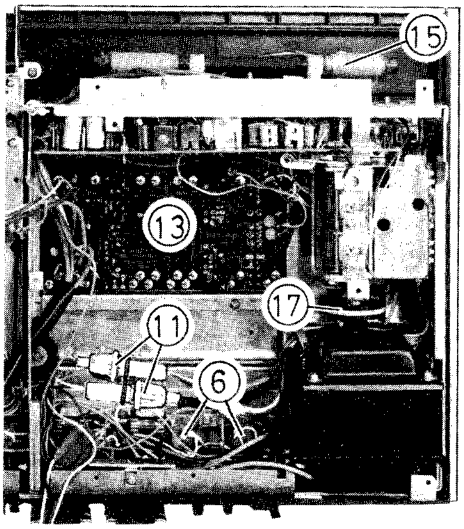
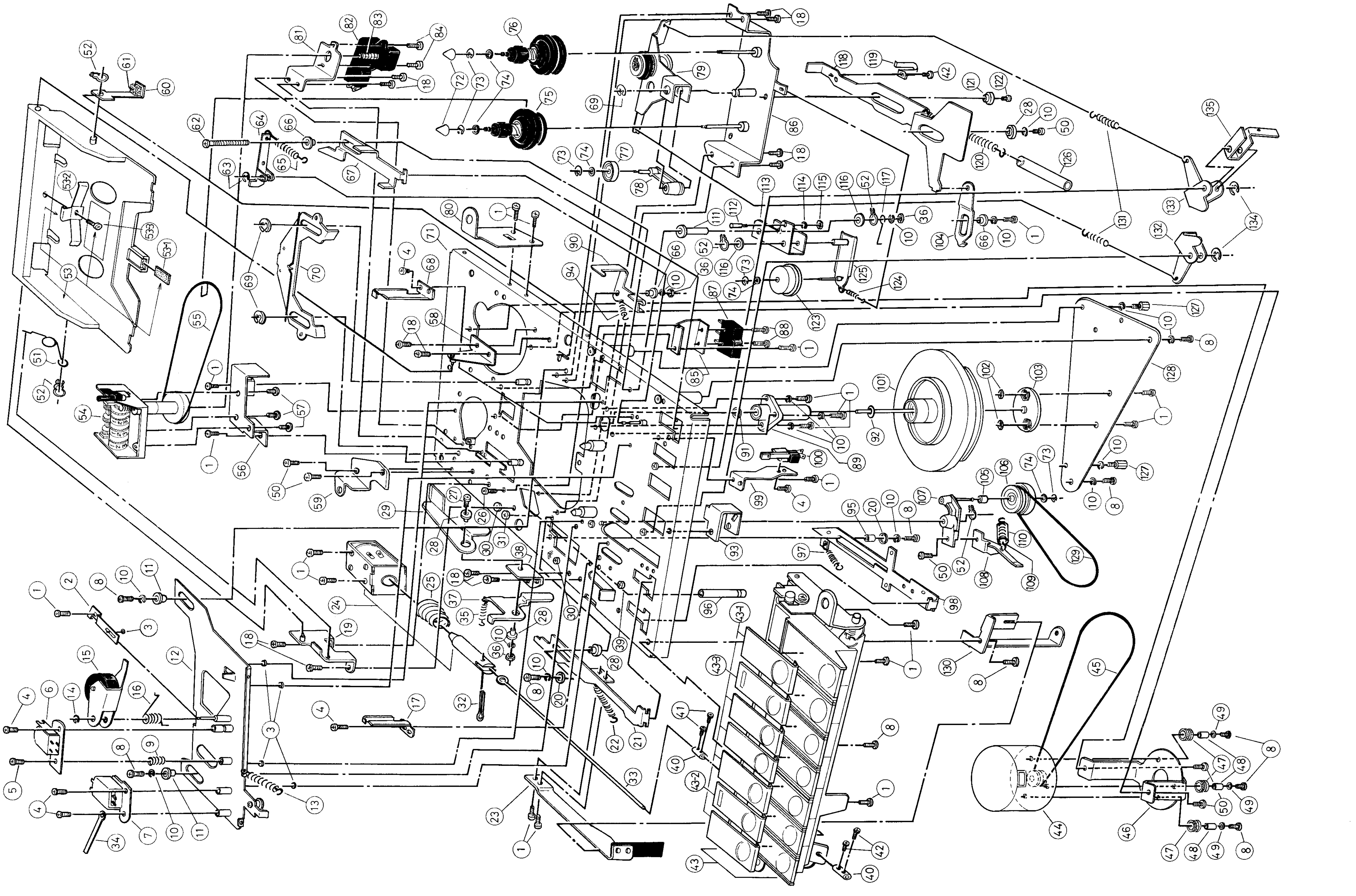


Fig. 31

Dwg. No.	Parts No.	Parts Name	Remarks
1	VDL5010-001B	Cassette Mecha. Ass'y	
2	———	Bias Osc Circuit Board Ass'y	
3	V04060-00B	Socket Ass'y	
4	V04059-001	Plug Ass'y	
5	A44623-00A	〃	
6	Q30110-A	Pilot Lamp Socket	
7	———	Pre & Main Amp Circuit Board Ass'y	
8	V20585-1	Radiation Plate	
9	Q30213-001	Fuse Holder	
10	QMF51A2-2R0	Fuse	2AT
11	QMG8301-002	Fuse Holder	1.6AT
12	VTP76N5-A0A	Power Transformer	
13	———	Volume & Tone Control Circuit Board Ass'y	
14	———	IF & MPX Circuit Board Ass'y	
15	VQB018B-011	Bar Antenna Ass'y	with Holders
16	VAF2A23-32A	Tuner Ass'y	
17	QZD1205-001	Dial Drum	

SASSEMBLY DIAGRAM OF CASSETTE MECHANISM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DISASSEMBLY DIAGRAM OF CASSETTE MECHANISM

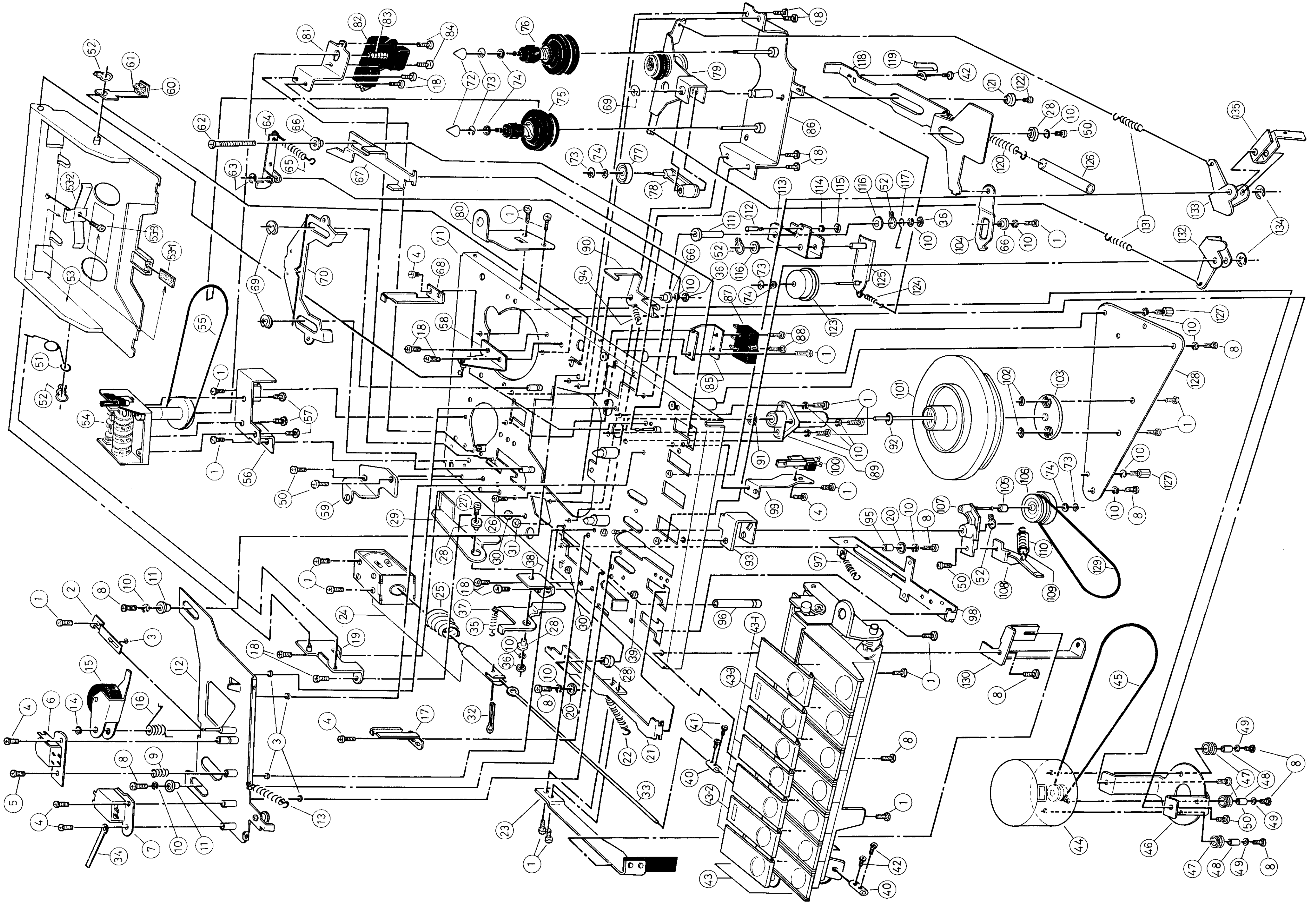
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Fig. 32

PARTS LIST OF CASSETTE MECHANISM (Refer to Fig. 32)

Dwg. No.	Parts No.	Parts Name	Remarks
1	SPSP2604Z	Screw	
2	V43573-1	Push Spring	
3	V43574-1	Steel Ball	
4	SPSP2004Z	Screw	
5	SPSP2008Z	Screw	
6	V03078-16	R.P. Head	
7	V03078-17	E. Head	
8	SPSP2606Z	Screw	
9	V43577-1	Spring	
10	WLS2600	Lock Washer	
11	V43575-1	Head Panel Guide	
12	V43567-A	Head Panel Ass'y	
13	V43576-1	Spring	
14	REE1900	"E" Washer	
15	V43581-A	Pinch Roller Ass'y	
16	V43582-1	Spring	
17	V43600-1	Cassette Guide	
18	SPSP2603	Screw	
19	V43613-A	Holder Bracket (L) Ass'y	
20	Q03091-150	Washer	
21	V43597-1	Rec. Slide (A)	
22	V43709-1	Spring	
23	V43708-A	Rec. Slide Ass'y	
24	V43728-1	Solenoid	
25	V43731-1	Spring	
26	SPSP2608Z	Screw	
27	SPSP2610Z	Screw	
28	V43598-1	Slide Guide	
29	V43619-1	Eject Lever	
30	SPSB3010Z	Screw	
31	SPSP3008Z	Screw	
32	V43730-1	Split Pin	
33	V43729-1	Spoke	
34	V43690-1	Wire Clamp	
35	V43655-1	Spring	
36	NNS2600	Nut	
37	V43620-1	Lock Lever	
38	V43621-1	Lever Bracket	
39	SPSB3016Z	Screw	
40	V43675-1	Stop Pipe	
41	SPSP2002	Screw	
42	SPSP2003	Screw	
43	V30838-A	Lever Switch Ass'y	
43-1	V43553-1	Plate	
43-2	V43553-2	Plate	
43-3	V43553-3	Plate	
44	MHI-5R2CV	Motor	
45	V43723-1	Main Belt	
46	V43725-1	Motor Bracket	
47	V43726-1	Motor Rubber	
48	V43727-1	Collar	
49	WSS2600Z	Washer	
50	SPSP2605Z	Screw	
51	V43614-1	Spring	
52	RCS4000	"C" Washer	

Dwg. No.	Parts No.	Parts Name	Remarks
53	V30833-A	Cassette Holder Ass'y	
53-1	03084-476	Felt	
53-2	V43535-1	Holder Spring	
53-3	SPSB2004Z	Screw	
54	V30846-1	Tape Counter	
55	V43605-1	Counter Belt	
56	V43604-1	Counter Bracket	
57	SPSP3005Z	Screw	
58	V43610-A	Holder Bracket (R) Ass'y	
59	V43607-1	Bracket (L)	
60	V43737-1	Stopper	
61	V43622-1	Cushion	
62	SPSP2625Z	Screw	
63	REE2500	"E" Washer	
64	V43595-1	OFF Lever	
65	V43596-1	Spring	
66	V43594-1	Slide Guide	
67	V43593-1	OFF Slide	
68	V43599-1	Cassette Guide (R)	
69	REE3000	"E" Washer	
70	V43603-A	Bracket Arm Ass'y	
71	V30834-A	Chassis Ass'y	
72	V43636-1	Reel Cap	
73	REE1500	"E" Washer	
74	V43637-1	Washer	
75	V43628-A	Reel (L) Ass'y	
76	V43642-A	Reel (R) Ass'y	
77	V43666-1	Rew. Idler	
78	V43663-A	Rew. Idler Arm Ass'y	
79	V43662-A	Idler Arm Ass'y	
80	V43606-1	Bracket (R)	
81	V43736-1	Switch Bracket	
82	V43735-A	Detect Switch Ass'y	
83	V43732-1	Joint Spring	
84	SPSP2005Z	Screw	
85	V43562-1	Switch Bracket	
86	V43627-1	Reel Bracket Ass'y	
87	V43563-1	Main Switch	
88	SPSP2010Z	Screw	
89	V43718-A	Capstan Metal Ass'y	
90	V43703-1	Rec. Safety Lever	
91	V43720-1	Washer	
92	V43719-1	Washer	
93	V43679-1	Stopper	
94	V43776-1	Spring	
95	V43700-1	Collar	
96	V43566-1	Shaft	
97	V43702-1	Spring	
98	V43699-1	Eject Slide	
99	V43564-1	Switch Bracket	
100	V43565-1	Rest Switch	
101	V43714-A	Flywheel Ass'y	
102	NTB2600N	Nut	
103	V43722-1	Capstan Bearing	
104	V43701-1	Stop Arm	

Dwg. No.	Parts No.	Parts Name	Remarks
105	V43671-1	Collar	
106	V43672-1	M. Idler	
107	V43699-A	M. Idler Arm Ass'y	
108	V43670-1	M. Lever	
109	V43673-1	Spring	
110	———	Spaghetti	
111	V43682-1	Shaft	
112	V43681-1	Shaft	
113	V43680-1	Takeup Lever	
114	WLS2000	Lock Washer	
115	NNB2000	Nut	
116	V43686-1	Washer	
117	V43692-1	Spring Guide	
118	V30864-1	Main Slide	
119	V43694-1	Switch Spring	
120	V43697-1	Spring	
121	V43695-1	Slide Guide (A)	
122	SSBP2605N	Screw	
123	V43687-1	Takeup Idler	
124	V43691-1	Spring	
125	V43688-A	Takeup Arm Ass'y	
126	———	Spaghetti	
127	V43724-1	Stud	
128	V43721-1	Flywheel Bracket	
129	V43674-1	M. Belt	
130	V43705-1	Bracket	
131	V43678-1	Spring	
132	V43677-1	Rew. Action Lever	
133	V43676-1	FF. Action Lever	
134	REE5000	"E" Washer	
135	V43945-1	Kick Lever	

DISASSEMBLY DIAGRAM OF MECHANICAL ASSEMBLY

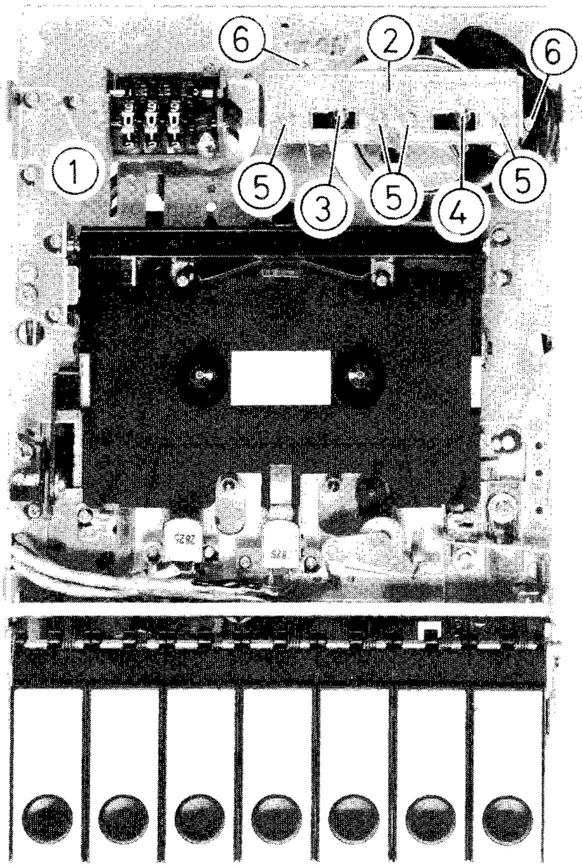


Fig. 33

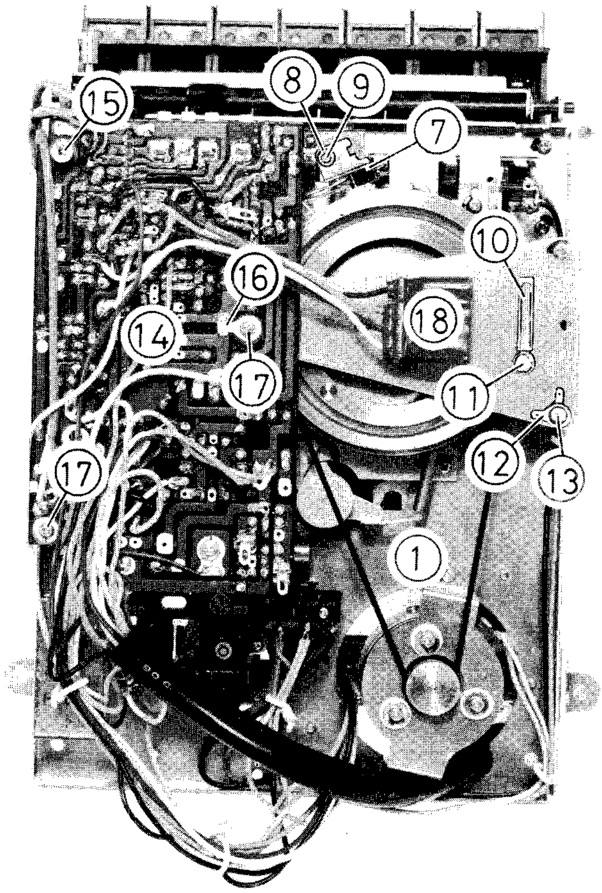


Fig. 34

PARTS LIST OF MECHANICAL ASSEMBLY (Refer to Fig. 33 & 34)

Dwg. No.	Parts No.	Parts Name	Remarks
1	VDL5010-001B	Cassette Mecha. Ass'y	
2	V43552-1	Switch Bracket	
3	QSS0034-001	Slide Switch	
4	QSS0034-001	〃	
5	SPSP2604Z	Screw	
6	SPSP2604Z	〃	
7	V43939-1	Leaf Switch	
8	WLS2600	Lock Washer	
9	SPSP2606Z	Screw	
10	55234-1	Terminal Lug	
11	SPSP2604Z	Screw	
12	50242-2	Terminal Lug	
13	SPSP2604Z	Screw	
14	———	Bias Osc. Circuit Board Ass'y	
15	V41952-4	Stud	
16	53840-2	Lug	
17	SPSP2606Z	Screw	
18	V04060-00B	Socket Ass'y	

DISASSEMBLY DIAGRAM OF CHASSIS ASSEMBLY

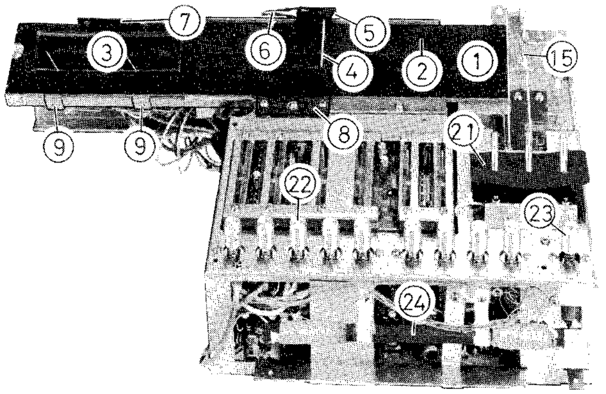


Fig. 35

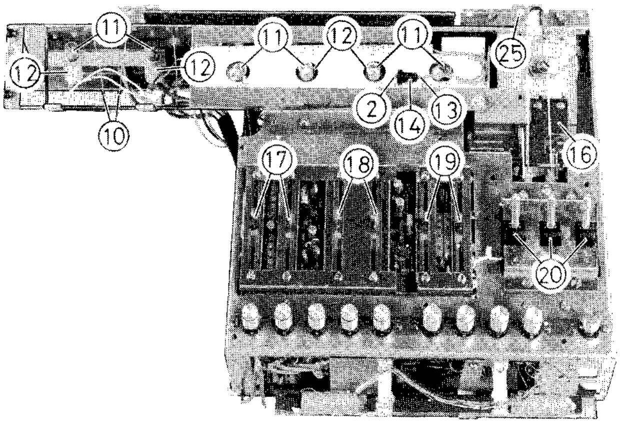


Fig. 36

PARTS LIST OF CHASSIS ASSEMBLY (Refer to Fig. 35 & 36)

Dwg. No.	Parts No.	Parts Name	Remarks
1	V20588-1	Dial Scale	
2	E46487-003	Rabbit Eye	Glued
3	V03089-3	Level Meter	
4	V43751-A	Needle Ass'y	
5	V43788-1	Spacer	
6	QLP3104-201	Pilot Lamp	PL2
7	V43795-1	Holder (B)	
8	V43794-1	Holder (A)	
9	V43896-1	Dial Holder	
10	V43766-1	Spring	
11	Q04968-001	Pilot Lamp	PL3~8
12	Q30110-A	Pilot Lamp Socket	
13	QLP3104-202	Pilot Lamp	PL1 Stereo Indicator
14	V43747-1	Holder	
15	V43799-00A	Tuning Shaft Ass'y	with Bushing
16	V43771-A	Roller Bracket Ass'y	
17	QVT4AJB-015	Variable Resistor	VR104,204
18	QVT5AJB-115	〃	VR102,103,202,203
19	QVT4AJB-515	〃	VR101,201
20	QSL2235-003	Lever Switch	SL, SM, SK
21	V43743-1	Dust Pad	
22	V43754-A	Knob Ass'y	
23	VSU1130-00A	Push Switch Ass'y	with Knob
24	VQB018B-011	Bar Antenna Ass'y	L6, 7
25	V43749-A	Roller Bracket Ass'y	

BLOCK DIAGRAM

TUNER SECTION

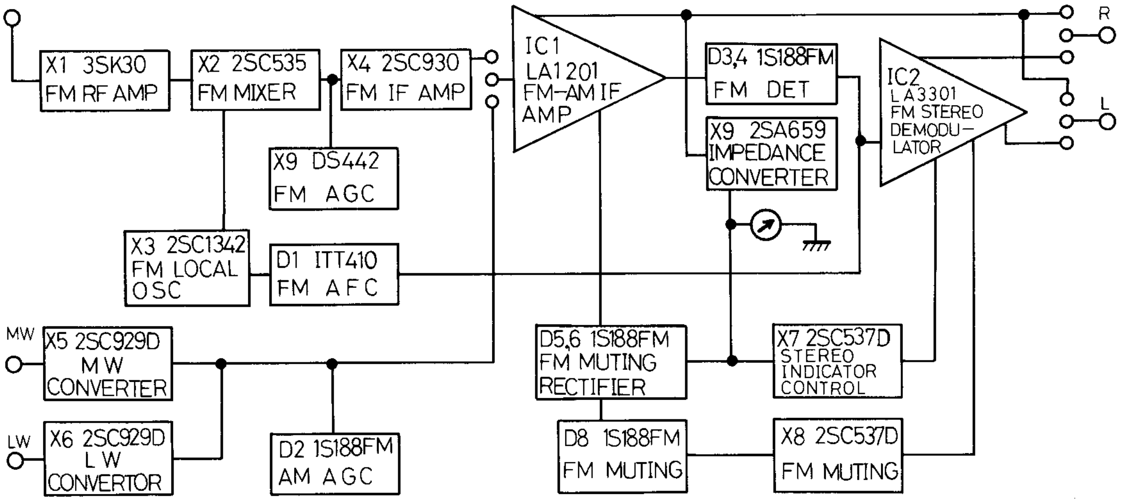

X1 3SK30
FM RF AMP
X2 2SC535
FM MIXER
X4 2SC930
FM IF AMP
IC1
LA1201
FM-AM IF
AMP
D3,4 1S188FM
FM DET
X9 2SA659
IMPEDANCE
CONVERTER
IC2
LA3301
FM STEREO
DEMODU-
LATOR
R
L
X9 DS442
FM AGC
X3 2SC1342
FM LOCAL
OSC
D1 ITT410
FM AFC
MW
X5 2SC929D
MW
CONVERTER
LW
X6 2SC929D
LW
CONVERTOR
D2 1S188FM
AM AGC
D5,6 1S188FM
FM MUTING
RECTIFIER
X7 2SC537D
STEREO
INDICATOR
CONTROL
D8 1S188FM
FM MUTING
X8 2SC537D
FM MUTING

Fig. 37

PLAYBACK & RADIO

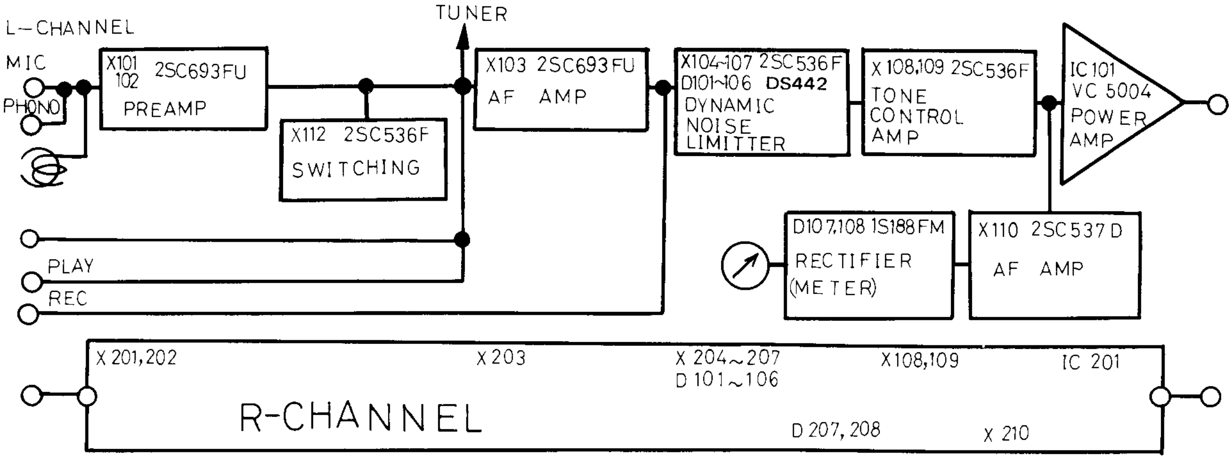

L-CHANNEL
MIC
PHONO
TUNER
X101 102 2SC693FU
PREAMP
X112 2SC536F
SWITCHING
X103 2SC693FU
AF AMP
X104~107 2SC536F
D101~106 DS442
DYNAMIC
NOISE
LIMITTER
X108,109 2SC536F
TONE
CONTROL
AMP
IC101
VC 5004
POWER
AMP
D107,108 1S188FM
RECTIFIER
(METER)
X110 2SC537D
AF AMP
PLAY
REC
X201,202
X203
X 204~207
D 101~106
X108,109
IC 201
R-CHANNEL
D 207, 208
X 210

Fig. 38

RECORDING MODE

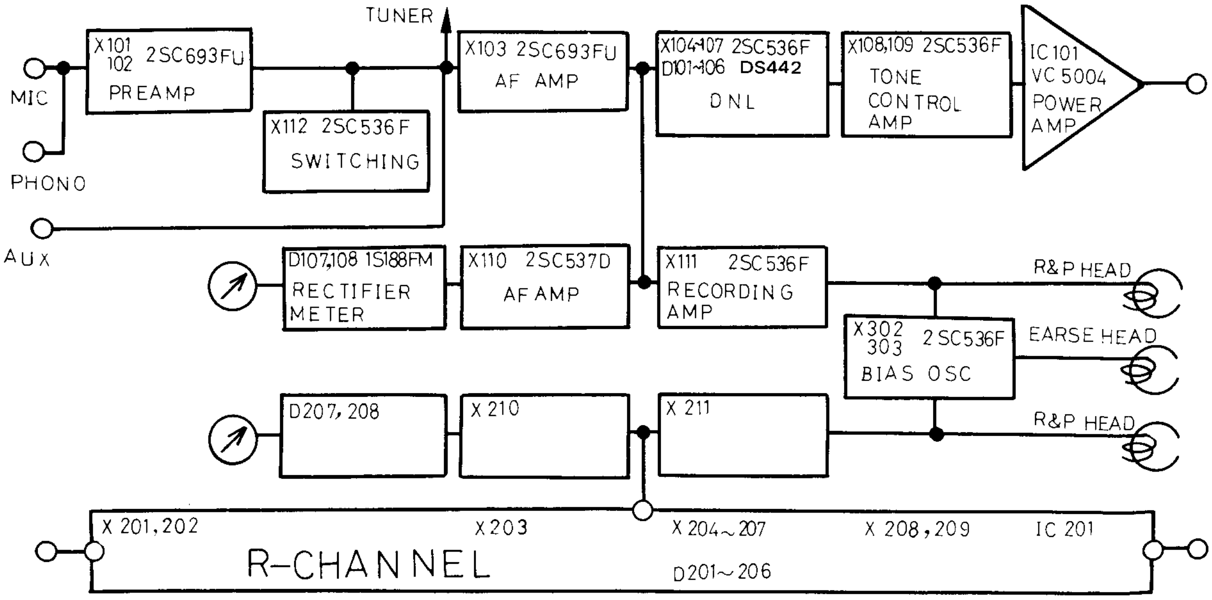
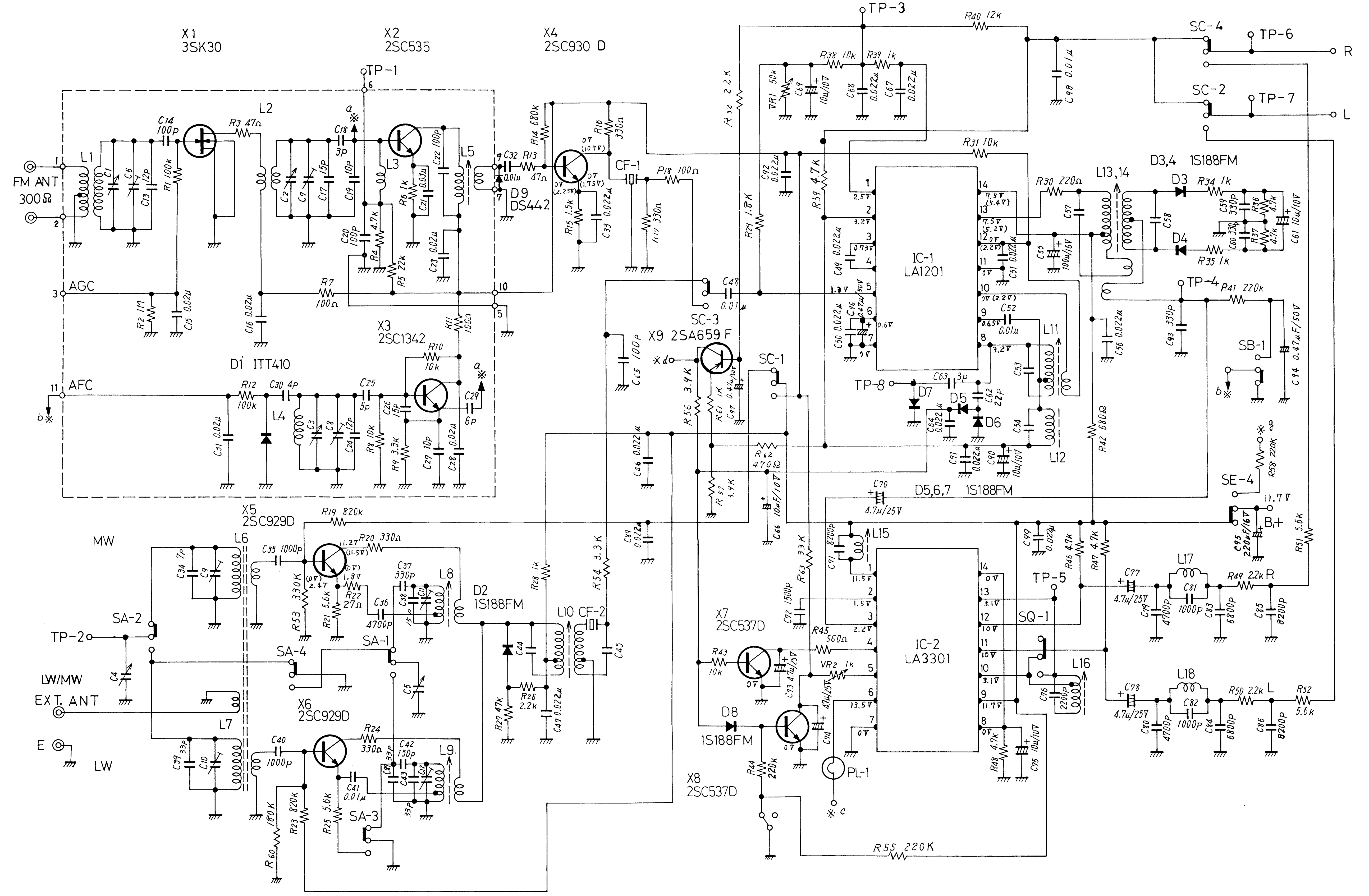

TUNER
MIC
PHONO
AUX
X101 102 2SC693FU
PREAMP
X112 2SC536F
SWITCHING
X103 2SC693FU
AF AMP
X104~107 2SC536F
D101~106 DS442
DNL
X108,109 2SC536F
TONE
CONTROL
AMP
IC101
VC 5004
POWER
AMP
D107,108 1S188FM
RECTIFIER
METER
X110 2SC537D
AF AMP
X111 2SC536F
RECORDING
AMP
R&P HEAD
X302 303 2SC536F
BIAS OSC
EARSE HEAD
D207, 208
X 210
X 211
R&P HEAD
X 201,202
X203
X 204~207
X 208,209
IC 201
R-CHANNEL
D201~206

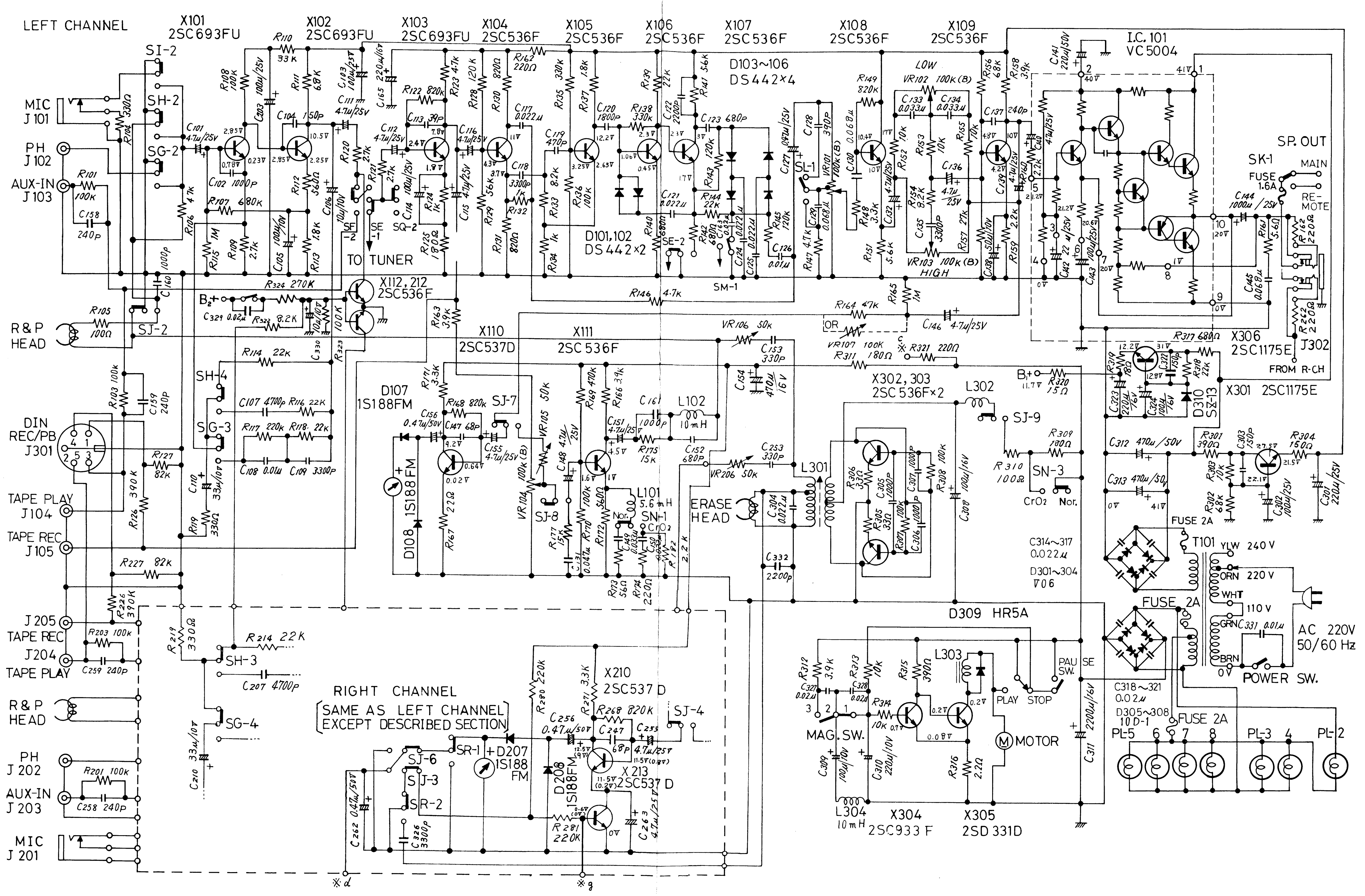
Fig. 39


X1
3SK30
X2
2SC535
X4
2SC930 D
TP-1
TP-2
TP-3
TP-4
TP-5
TP-6
TP-7
TP-8
FM ANT
300Ω
AGC
AFC
D1 ITT410
X3
2SC1342
D9
DS442
CF-1
CF-2
SC-1
SC-2
SC-3
SC-4
X9 2SA659 F
IC-1
LA1201
IC-2
LA3301
D3,4 1S188FM
D5,6,7 1S188FM
L13,14
SB-1
SE-4
B+
R
L
MW
LW/MW
EXT. ANT
E
LW
X5
2SC929D
X6
2SC929D
X7
2SC537D
X8
2SC537D
D2
1S188FM
D8
1S188FM
SA-1
SA-2
SA-3
SA-4
SQ-1
PL-1
L1
L2
L3
L4
L5
L6
L7
L8
L9
L10
L11
L12
L15
L16
L17
L18
R40 12K
R31 10k
R41 220k
R55 220K
C70 4.7μ/25V
C95 220μF/16V
11.7V

NOTE 1. SCHEMATIC DIAGRAM IS SHOWN WITH BAND SELECT SWITCH(SA,SB,SC) IN MW(SB) POSITION.

2. VOLTAGES ARE MEASURED WITH NO SIGNAL USING V.T.V.M. AT MW,LW. ( ) VALUES AT FM.

SCHEMATIC DIAGRAM OF 9470LS (TUNER)


LEFT CHANNEL
X101 2SC693FU
X102 2SC693FU
X103 2SC693FU
X104 2SC536F
X105 2SC536F
X106 2SC536F
X107 2SC536F
X108 2SC536F
X109 2SC536F
I.C.101 VC5004
D103~106 DS442×4
D101,102 DS442×2
MIC J101
PH J102
AUX-IN J103
SI-2
SH-2
SG-2
SE-2
SM-1
SL-1
SF
SE-1
SQ-2
TO TUNER
X112, 212 2SC536F
R&P HEAD
SJ-2
SH-4
SG-3
X110 2SC537D
X111 2SC536F
D107 1S188FM
D108 1S188FM
SJ-7
SJ-8
L101 5.6mH
SN-1
L102 10mH
ERASE HEAD
L301
X302, 303 2SC536F×2
L302
SJ-9
SN-3
CrO2
Nor.
DIN REC/PB J301
TAPE PLAY J104
TAPE REC J105
J205 TAPE REC
J204 TAPE PLAY
R&P HEAD
PH J202
AUX-IN J203
MIC J201
SH-3
SG-4
RIGHT CHANNEL
SAME AS LEFT CHANNEL EXCEPT DESCRIBED SECTION
SJ-6
SJ-3
SR-1
SR-2
D207 1S188 FM
D208 1S188FM
X210 2SC537D
X213 2SC537D
SJ-4
※d
※g
LOW
VR102 100K(B)
VR103 100K(B)
HIGH
VR106 50K
VR107 100K
OR
SP. OUT
SK-1
FUSE 1.6A
MAIN
REMOTE
J302
FROM R-CH
X306 2SC1175E
X301 2SC1175E
D310 SZ-13
B+
FUSE 2A
T101
YLW 240V
ORN 220V
WHT 110V
GRN
BRN 0V
C314~317 0.022μ
D301~304 V06
D309 HR5A
AC 220V 50/60 Hz
POWER SW.
PAUSE SW.
PLAY
STOP
MAG. SW.
L303
MOTOR
L304 10mH
X304 2SC933F
X305 2SD331D
C318~321 0.02μ
D305~308 10D-1
FUSE 2A
PL-5 6 7 8
PL-3 4
PL-2

NOTE 1. SCHEMATIC DIAGRAM IS SHOWN WITH FUNCTION SELECT SWITCH(SE, SF, SG, SH, SI) IN RADIO(SE) POSITION.

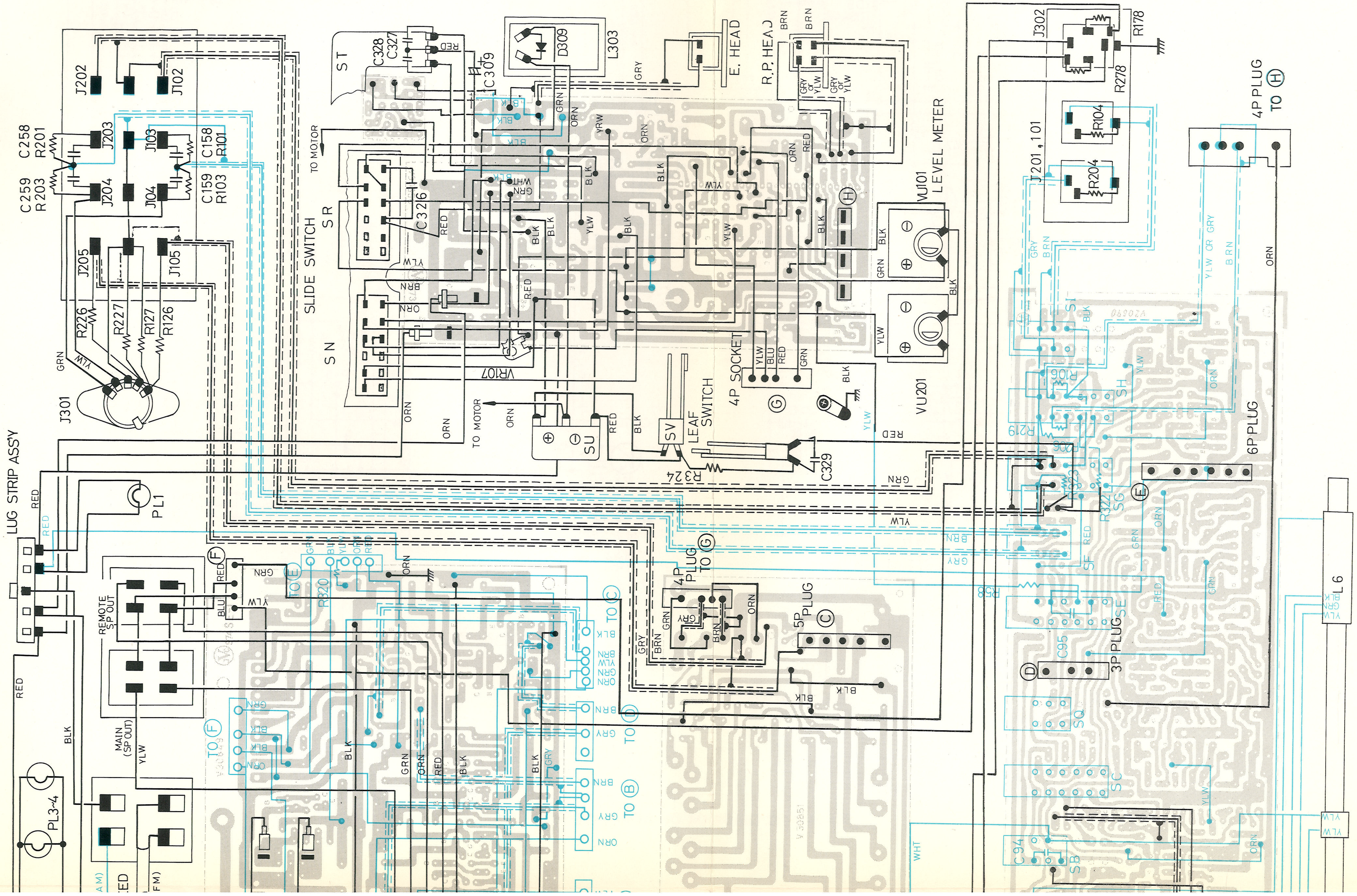
2. SWITCHES(SJ-1~SJ-9) ARE PLAY BACK POSITION.

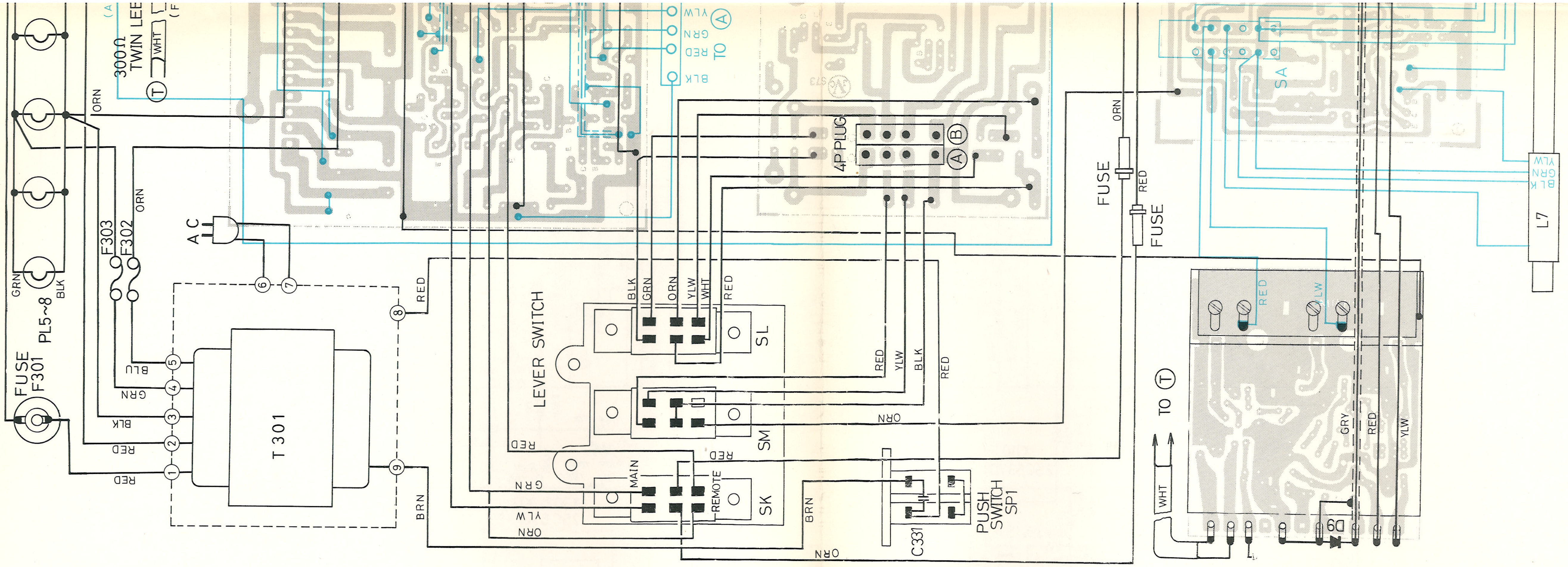
3. VOLTAGES ARE MEASURED WITH NO SIGNAL USING V.T.V.M., ( ) VALUES AT RECORDING.

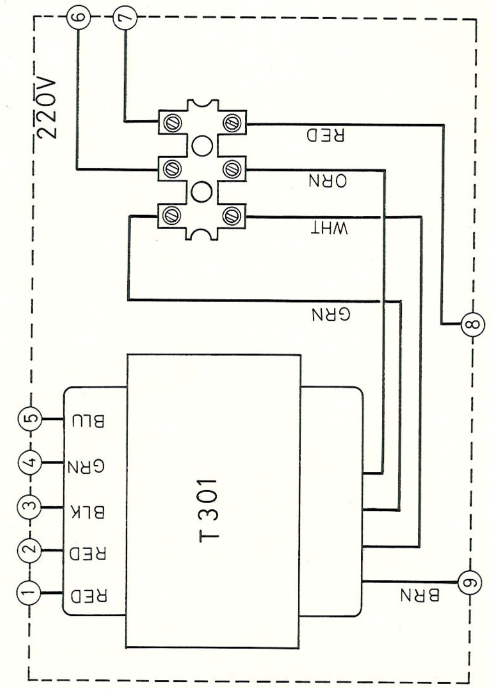
SCHEMATIC DIAGRAM OF 9470LS (AMPLIFIER)

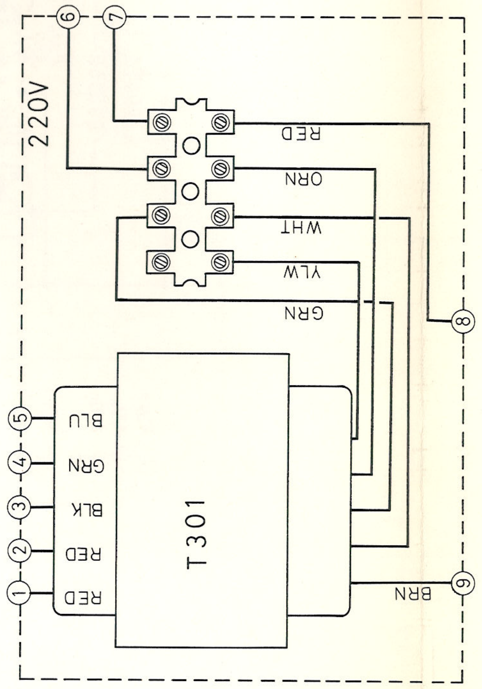
9470LS

WIRING CONNECTION


J202
J102
C258
R201
J203
J103
C158
R101
C259
R203
J204
J104
C159
R103
J205
J105
R226
R227
R127
R126
GRN
YLW
J301
LUG STRIP ASSY
RED
PL1
PL3~4
BLK
REMOTE SP OUT
MAIN (SP OUT)
YLW
BLU
F
E
R320
TO F
TO E
TO C
TO D
TO B
ST
C328
C327
C309
D309
L303
E. HEAD
R.P. HEAD
GRY
BRN
TO MOTOR
SLIDE SWITCH
SR
SN
C326
VR107
SU
SV
LEAF SWITCH
R324
C329
4P SOCKET
G
4P PLUG TO G
5P PLUG C
VU101 LEVEL METER
VU201
H
J302
R178
R278
R104
R204
J201, 101
4P PLUG TO H
6P PLUG
E
SG
SF
SE
SH
SI
R322
R219
R58
3P PLUG
D
C95
SQ
SC
SB
C94
L6
ORN
YRW
YLW OR GRY
GRY OR YLW
WHT
BLK
ORN
GRN
RED
(AM)
(FM)


FUSE F301
PL5~8
GRN
BLK
ORN
300Ω TWIN LEE
WHT
T
F303
F302
AC
T 301
RED
BLK
GRN
BLU
BRN
YLW
LEVER SWITCH
SL
SM
SK
MAIN
REMOTE
4P PLUG
A
B
TO A
BLK
RED
GRN
YLW
PUSH SWITCH SP1
C331
FUSE
TO T
SA
L7
D9
GRY


220V
T 301
RED
ORN
WHT
GRN
BLU
GRN
BLK
RED
RED
BRN


220V
T 301
RED
ORN
WHT
YLW
GRN
BLU
GRN
BLK
RED
RED
BRN

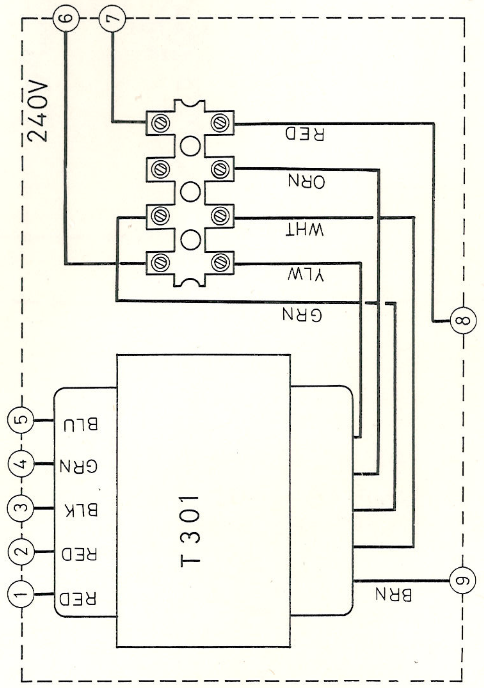

240V
T 301
RED
ORN
WHT
YLW
GRN
BLU
GRN
BLK
RED
RED
BRN

Fig. 40

PACKING ILLUSTRATION

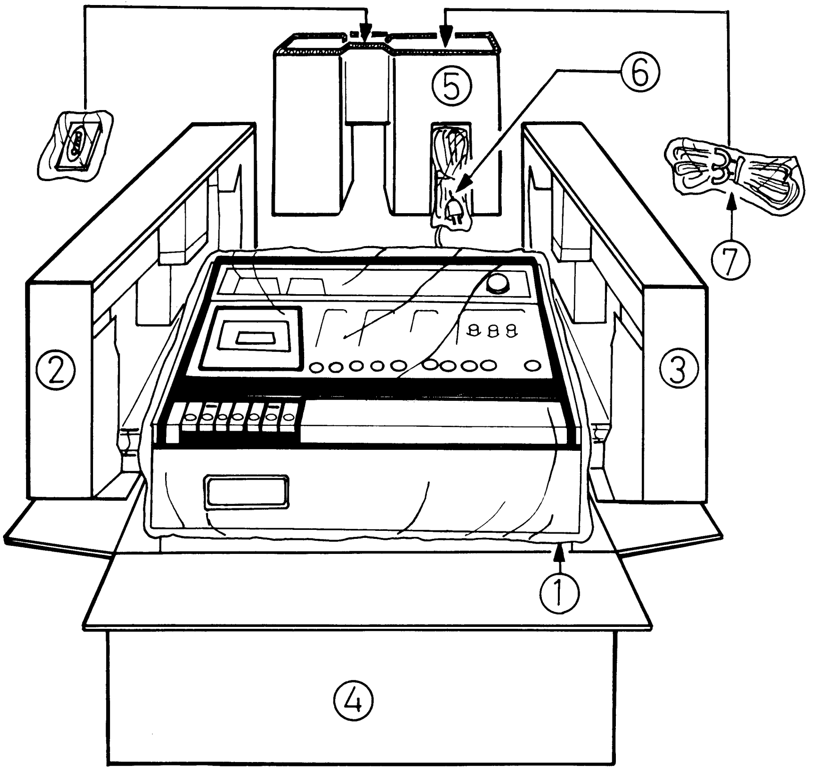


Fig. 41

Dwg. No.	Parts No.	Parts Name	Remarks
1	06026-53	Cabinet Cover	
2	VP2298-1	Cushion	Left
3	VP2299-1		Right
4	VP3269-1	Carton Box	
5	VP2300-1	Holder	
2~5	VP3269-00A	Carton Ass'y	
6	06023-16	Parts Sack	Power Cord
7	06023-12		FM Antenna

ACCESSORIES

Parts No.	Parts Name	Remarks
E3187-26	Built in Antenna	FM Antenna
V03098-18	Demonstration Cassette	

The Parts List for Replacement

Parts No.	Parts Name	Description
Coils & Transformer		
VNZ9001-402	Antenna Coil (FM)	L1
〃 -403	RF Coil (FM)	L2
〃 -405	IF Trap Coil (FM)	L3
〃 -404	Osc Coil (FM)	L4
〃 -406	I.F.T. (FM)	L5
VQB018B-011	Bar Antenna Ass'y	L6,7
V03083-7	Osc. Coil (MW)	L8
46923-42	〃 (LW)	L9
V03067-24	I.F.T. (AM)	L10,C44,45
V03046-35	〃 (FM)	L11,C53
V03029-35	〃	L12,C54
V03046-34	〃 (FM Det)	L13,14,C57,58
V03012-9	MPX Coil	L15,16
03226-18	Inductor	L17,18
03226-19	〃	L101,201
03226-17	〃	L102,103,202,203,302,304
V03083-9	Osc. Coil (Bias)	L301
V43728-1	Solenoid	L303
VTP76N5-A0A	Power Transformer	T301
Semiconductors		
LA1201	Integrated Circuit (Sanyo)	IC1
LA3301	〃 (〃)	IC2
VC5004	〃 (JVC)	IC101,201
3SK30	Field Effect Transistor (Hitachi)	X1
2SC535	Transistor (Hitachi)	X2
2SC1342	〃 (〃)	X3
2SC930(D)	〃 (Sanyo)	X4
2SC929(D)	〃 (〃)	X5,6
2SC537(D)	〃 (〃)	X7,8,110,210,213
2SA659(E)	〃 (〃)	X9
2SC693(FU)	〃 (〃)	X101,102,103,201,202,203
2SC536(F)	〃 (〃)	X104~109,111,112,204~209,211,212, 302,303
2SC1175(E)	〃 (〃)	X301,306
2SC933(F)	〃 (〃)	X304
2SD331(D)	〃 (〃)	X305
ITT410	Variable Capacitor Diode	D1
1S188FM	Germanium Diode (Sanyo)	D2~8,107,108,207,208
DS442	Silicon Diode (Sanyo)	D9,101~106,201~206
V06(C),(E)	〃 (Hitachi)	D301~304
10D1	〃 (I.R.C.)	D305~308
HR5A	〃 (Hitachi)	D309
SZ13	Zener Diode (Snayo)	D310
Capacitors		
VNZ9001-400	Variable Capacitor	C1~8
Q03638-1	Trimmer Capacitor	C9,10,11,12
Q03244-822	Mylar Capacitor	C85,86
Q03246-102	〃	C35,40,81,82,102,160,161,202,260,261, 305~307
〃 -222	〃	C122,222,332
〃 -332	〃	C109,118,135,209,218,235,326
〃 -472	〃	C36,79,80,107,207
〃 -682	〃	C83,84
〃 -103	〃	C32,41,48,52,98,108,126,208,226

Parts No.	Parts Name	Description
Q03246-223	Mylar Capacitor	C33,46,47,49~51,56,64,67,68,89,92,99, 117,121,124,125,150,217,221,224,225, 250,304,314~317
〃 -333	〃	C129,133,134,149,229,233,234,249
〃 -473	〃	C131,145,231,245
〃 -683	〃	C130,230
Q03264-681	Polystyrol Capacitor	C123,152,223,252
〃 -152	〃	C72
〃 -182	〃	C120,220
〃 -222	〃	C76
〃 -822	〃	C71
Q03106-10	Electrolytic Capacitor	C61,66,69,75,90,106,206,330
〃 -30	〃	C110,210
〃 -50	〃	C105,138,205,238
〃 -200	〃	C310
Q03107-5	〃	C246
Q03108-100	〃	C55,114,214,308,309,324
〃 -200	〃	C95,165,265,323
〃 -500	〃	C325
〃 -2000	〃	C311
Q03110-5	〃	C70,73,74,77,78,101,111,112,115,116, 132,136,139,140,146,148,151,155,201, 211,212,215,216,227,232,236,239,240, 248,251,255
〃 -30	〃	C142,242
〃 -100	〃	C103,143,203,243,302
〃 -200	〃	C301
〃 -1000	〃	C144,244
Q03112-0.5	〃	C94,96,97,127,156,256,262
〃 -200	〃	C141,241
〃 -500	〃	C312,313
Q04191-103	Ceramic Capacitor	C331
Q00402-150CH	〃	C42
Q04062-1000	〃	C22
〃 -02	〃	C15,16,21,23,28,163,263,318~321,327 328,329
*Q04335-	〃	C20,24~27,29,30,37,59,60,65,93,128, 137,228,237
*Q04305-	〃	Other Capacitors
Resistors		
Q04848-3	Variable Resistors	VR1,105,106,205,206
Q04843-4	〃	VR2
QVT4AJB-515	〃	VR101,201
QVT5AJB-115	〃	VR102,103,202,203
QVT4AJB-015	〃	VR104,204
Q04849-4	〃	VR107
*04081-	Composition Resistor	R301,309,310,315,321
*04082-	〃	R178,278,304,316,317
*Q04805-	Carbon Resistor	R102,106~120,202,206~220
*Q04802-	〃	R1~18,20,29,31,34~40,42,43,45~50, 52~54,56,57,59,60,64,101,103,105,121, 122,126,127,147,153,164,168,172~177, 182,201,203,205,221,222,226,227,247,248, 253,261,264,268,273~277,280~283,302, 303,305~308,318,319,323
*Q04800-	〃	Other Resistors

Note : **When you require capacitors or resistors marked *, write capacitance or resistance value in addition to the right hand of hyphen.**

Parts No.	Parts Name	Description
Others		
QSP0244-001	Push Switch	SA,SB,SC,SQ
QSP0254-001	〃	SE,SF,SG,SH,SI
QSS0025-002	Slide Switch	SJ
QSL2235-003	Lever Switch	SK,SL,SM
QSS0034-001	Slide Switch	SN,SR
VSU2130-00A	Push Switch Ass'y	SP
V43939-1	Leaf Switch	
QLP3104-202	Pilot Lamp	PL1 STEREO Indicator
QLP3104-201	〃	PL2 Needle Illumination
Q04968-001	〃	PL3~8
Q30110-A	Pilot Lamp Socket	
QMF51A2-1R6	Fuse	F101,201 1.6AT
QMF51A2-2R0	〃	F301,302,303 2AT
QMG0301-002	Fuse Holder	for F301
Q30213-001	〃	for F302,303
QMG8301-002	〃	F101,201
QMS6303-003	Mic Jack	J101,201
E0778-80	8P Jack Ass'y	J102~105,202~205
Q03967-1	DIN Socket Ass'y	J301
QMS6301-008	Headphone Jack	J302
E03410-001	4P Push Terminal Ass'y	
Q30150-002	Terminal Board Ass'y (2P)	FM & AM ANT
QMC0329-001	Plug Ass'y (3P)	
QMC0429-001	〃 (4P)	
QMC0529-001	〃 (5P)	
QMC0629-001	〃 (6P)	
A44623-00A	〃 (4P)	
V04059-001	〃 (4P)	
QMC0359-001	Socket Ass'y (3P)	
QMC0459-001	〃 (4P)	
QMC0559-001	〃 (5P)	
V04060-00A	〃	
〃 -00B	〃	
V03089-3	Level Meter	VU101,102
V03059-7	Ceramic Filter	CF1
VAF2A23-32A	Tuner Ass'y	FM RF stage with variable capacitor
VDL5010-001B	Cassette Mecha Ass'y	
QMP3800-244	Power Cord with Plug	SEV type approved
QMP9014-001	〃	SEMKO type approved
QMP7800-244	〃	Continental type plug
V40976-3	Power Cord Bushing	

Printed in Japan
— 4803 — O —

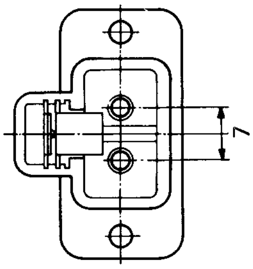
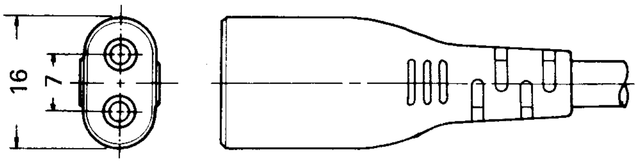
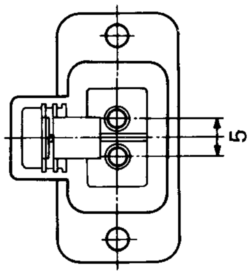
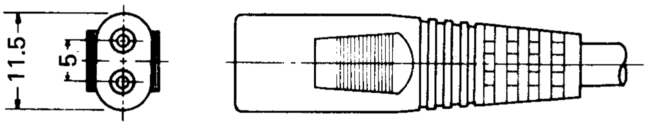
JVC

No. 1267-B

Supplementary
SERVICE MANUAL
for
MODEL 9407LS

The following parts have been changed in the midway of production.
Please correct the items concerned in the SERVICE MANUAL (No. 1267)

1. Two types of AC sockets have been adopted to comply with the standard for safety of the destination. This alteration has affected the power cord.

Destination	AC Socket	Power Cord
England	QMC0262-002  	QMP9017-003 
Other Countries	QMC0261-101  	QMP7820-183 QMP3810-183 

2. The output transformer has been changed after serial No. 04610001.
   It is interchangeable.
3. The amplifier circuit has been improved after serial No. 04610001.
4. Some component parts have been changed to improve the performance.

VICTOR COMPANY OF JAPAN, LIMITED.

PARTS ARRANGEMENT ON PRINTED CIRCUIT BOARD (TUNER)

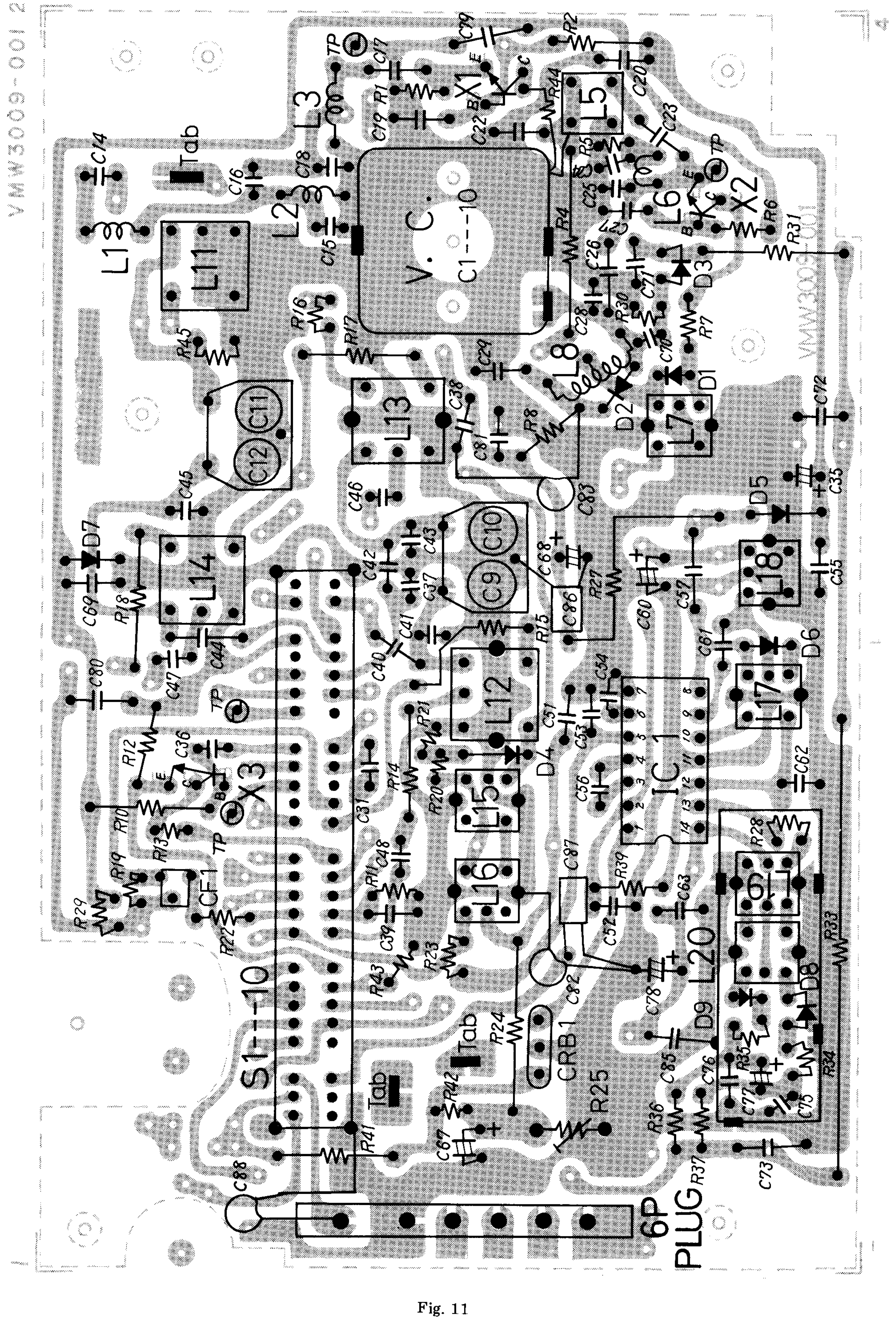

VMW3009-001 2
4
VMW3009-001
Tab
C14
L1
L11
C16
C18
L2
C15
L3
TP
C17
C19
R1
C79
X1
E
C
B
R2
R44
C22
L5
C20
C23
TP
R5
C25
L6
X2
R6
R31
D3
V. C.
C1---10
R4
C26
C28
R30
C71
C70
R7
L8
D1
D2
L7
C72
R16
R17
R45
C29
C11
C12
L13
C38
C81
R8
C83
C46
C45
D7
C69
R18
L14
C44
C47
C80
C42
C43
C37
C10
C9
C68
C86
R27
R15
C41
C40
L12
C60
C57
C35
D5
L18
C55
C61
D6
L17
C51
C53
C54
IC1
R21
R14
R20
D4
L15
C31
C56
C62
R12
C36
X3
R10
R13
R19
CF1
R29
R22
C48
R11
L16
C87
R39
C63
R28
L19
C39
R43
R23
C52
C78
L20
C82
R33
D8
D9
S1---10
R24
CRB1
R25
Tab
R42
C67
R41
C85
C76
R35
C77
C75
R34
R36
R37
C73
C88
6P PLUG

Fig. 11

PARTS ARRANGEMENT ON PRINTED CIRCUIT BOARD (AMP & BAIS OSC)

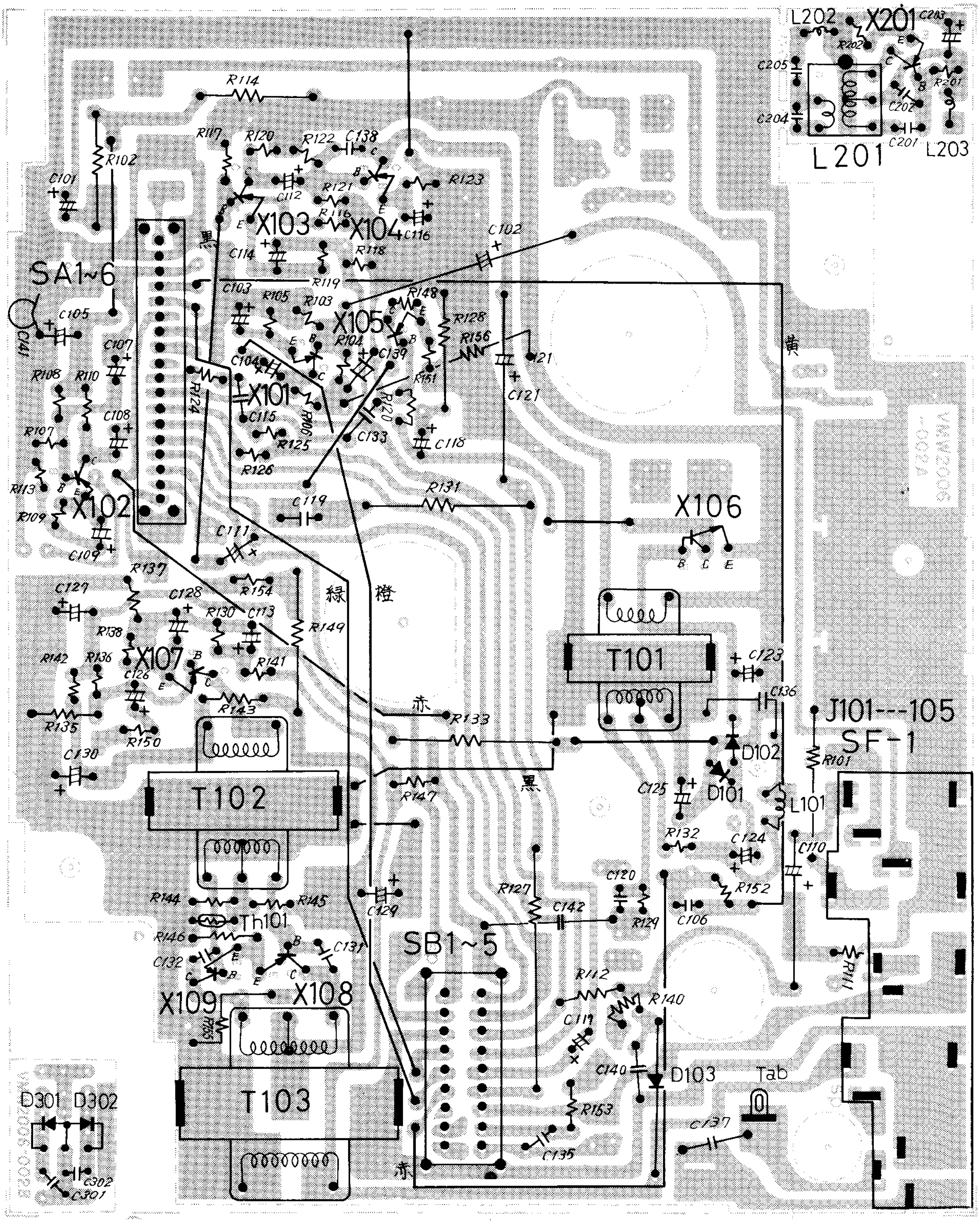

L202
X201
C203
R202
C205
C204
L201
C202
R201
C201
L203
R114
R102
C101
R117
R120
R122
C138
R121
R123
C112
R116
X103
X104
C116
C114
R118
C102
SA1~6
C103
R105
R103
R119
R148
X105
R128
R156
C105
C141
C107
R104
C104
C139
C121
R108
R110
R124
X101
R151
R120
C115
R106
C133
C108
C118
R107
R125
R126
R113
X102
R109
C109
C119
R131
X106
B C E
C111
R137
C127
C128
R130
C113
R154
緑
橙
R149
R138
R142
R136
X107
C126
R141
T101
C123
C136
J101---105
SF-1
R143
赤
R133
R135
R150
D102
R101
C130
T102
R147
黒
C125
D101
L101
R132
C124
C110
黄
VMW2006-002A
R144
R145
Th101
C129
R127
C142
C120
R129
C106
R152
R146
C132
C131
SB1~5
R111
X109
X108
R155
R112
R140
C117
C140
D103
Tab
T103
R153
C137
C135
D301
D302
C302
C301
VMW2006-002B

Fig. 12

SWITCH ASS'Y

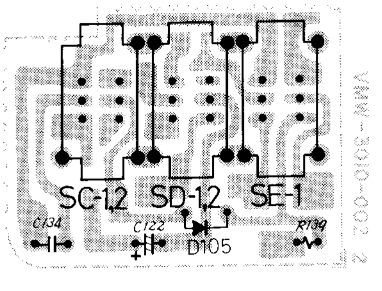

SC-1,2
SD-1,2
SE-1
C134
C122
D105
R139
VMW-3010-002 2

Fig. 13

PARTS LIST OF CASSETTE MECHANISM (Refer to Fig. 24)

Dwg. No.	Parts No.	Parts Name	Remarks
1	V30900-00A	Nech. Chassis Ass'y	
2	V44017-00A	Lever Switch Ass'y	
3	V30889-00A	Push Button Ass'y	
4	V30889-00B	〃	RECORD
5	V30889-00C	〃	STOP
6	V44046-001	Button Frame (B)	
7	SPSP2604Z	Screw	
8	V44109-00A	Head Panel Ass'y	
9	V42727-A	Pinch Roller Arm Ass'y	
10	V43034-2	Pinch Roller Spring	
11	REE1900	"E" Washer	
12	V03078-15	R/P Head	
13	V42675-1	Spring	
14	SPSP2603Z	Screw	
15	V03078-7	E. Head	
16	V42603-1	Wire Clamp	
17	SPSP2005Z	Screw	
18	V44044-001	Eject Plate	
19	V43044-1	Collar	
20	V44081-001	MCS Collar	
21	SDSP2610Z	Screw	
22	SDSP2606Z	〃	
23	V44025-00A	Auto Stop Lever Ass'y	
24	V43412-1	Collar	
25	WNS2600Z	Washer	
26	V44083-001	Spring Stopper	
27	180502T	Spring	Parts No. changed Interchangeable
28	WLS2600	Lock Washer	
29	NTB2600	Nut	
30	V43229-A	Stop Detect Lever Ass'y	
31	V43042-001	Stop Detect Contact	
32	V43230-2	Collar	
33	WLS2000	Lock Washer	
34	V43410-1	Tape Guide	
35	150802T	Spring	Parts No. changed Interchangeable
36	3951081ZT	FF Idler Arm Ass'y	Changed Note : 1
37	3900802T	FF Idler	Parts No. changed Interchangeable
38	REE1200	"E" Washer	
39	V44211-00A	Takeup Roller	Parts No. changed Interchangeable
40	V44136-001	Spring	Parts No. changed Interchangeable
41	V44088-001	Main Plate	
42	———	Vinyl Tube	5.5φ× 0.5t× 33
43	T191072T-001	Spring	
44	V44120-00A	Rewind Arm Ass'y	
45	V44091-001	Special Washer	
46	REE4000	"E" Washer	
47	V43158-00C	Takeup Arm Ass'y	
48	REE2300	"E" Washer	
49	V43884-001	Spring	
50	V43064-A	Flywheel Bushing	
51	SBSB2604Z	Screw	
52	SPSP2608Z	Screw	
53	V43065-B	Flywheel Ass'y	
54	V41750-1	Special Washer	
55	V41750-2	〃	
56	V44029-00C	Flywheel Bracket Ass'y	Parts No. changed Note : 2

DISASSEMBLY DIAGRAM OF CASSETTE MECHANISM

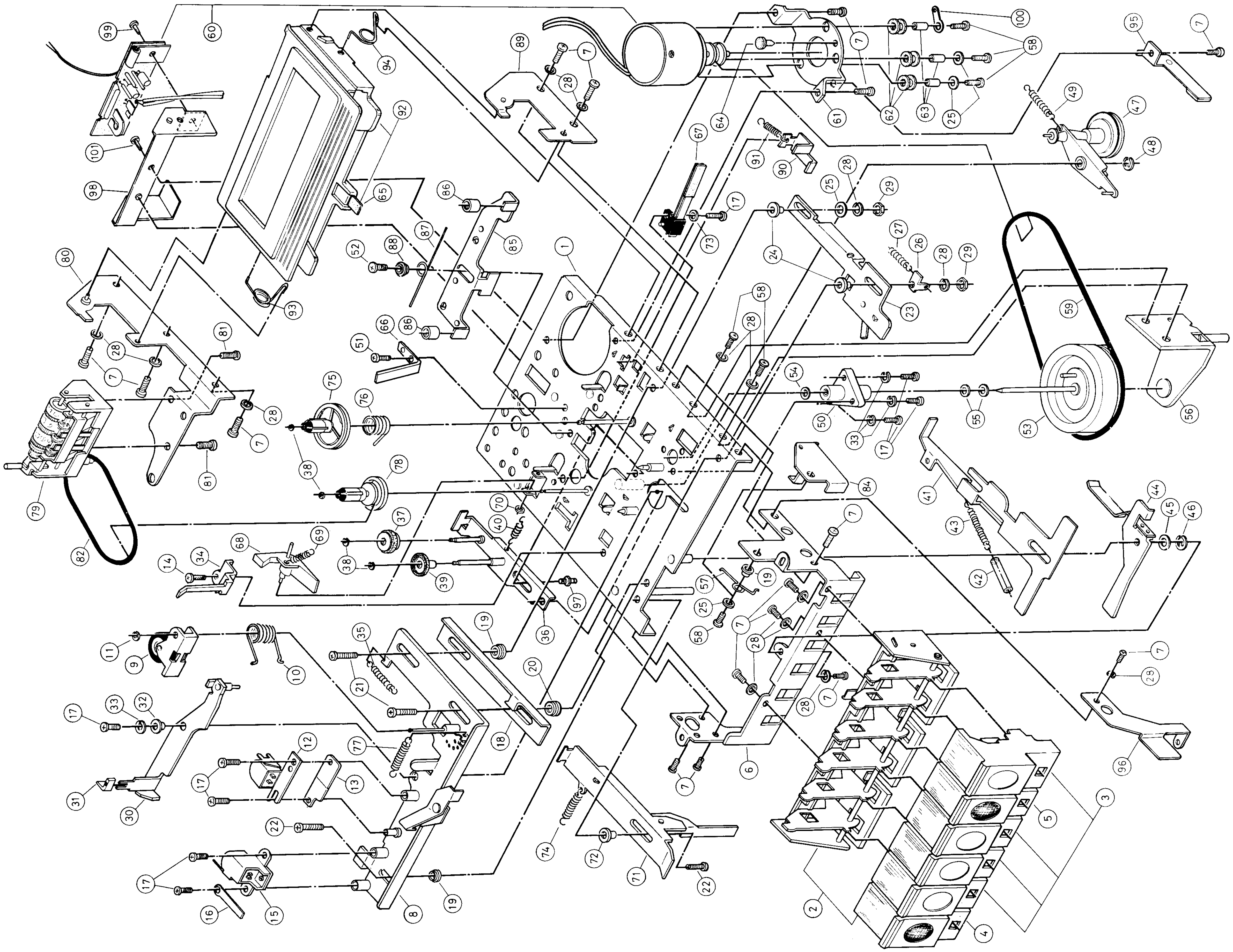
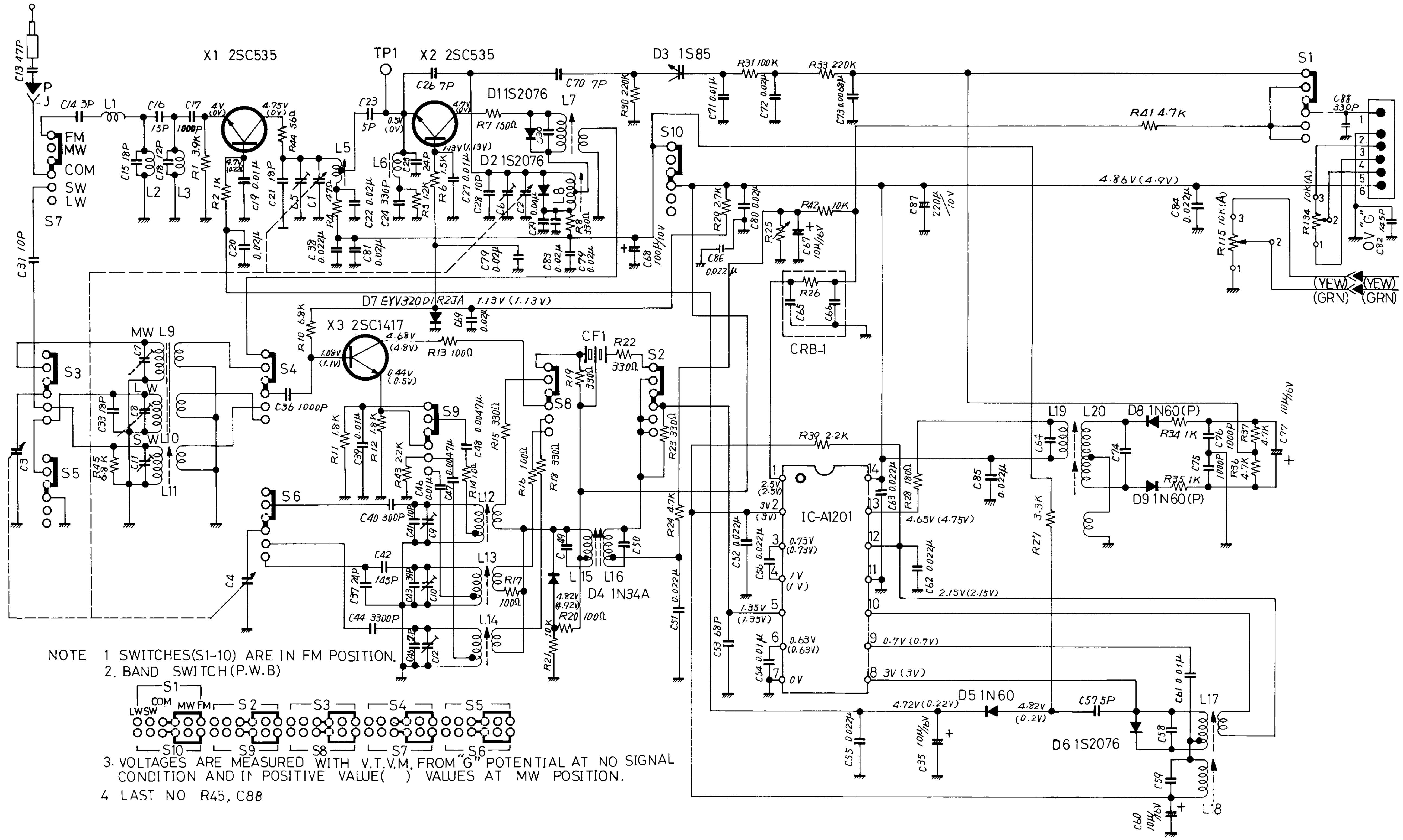

99
60
94
89
7
28
100
58
95
7
92
101
98
65
64
61
62
63
25
49
47
48
67
91
90
86
87
85
52
88
73
17
25
28
29
24
27
26
28
29
80
93
1
66
86
81
51
23
59
58
28
7
75
76
28
7
54
50
33
17
55
53
56
38
78
81
79
84
41
43
44
45
46
37
70
40
7
42
82
68
69
34
14
38
39
97
57
19
25
58
36
7
28
11
9
10
35
19
21
20
7
28
17
33
32
18
12
77
13
6
96
3
31
30
17
74
72
71
5
22
22
19
17
15
16
8
2
4

Fig. 24

SCHEMATIC DIAGRAM OF 9407LS (TUNER)


X1 2SC535
TP1
X2 2SC535
D3 1S85
S1
C13 47P
P
J
C14 3P
L1
C16 15P
C17 1000P
4V (0V)
4.75V (0V)
R44 56Ω
FM
MW
COM
SW
LW
S7
C15 18P
C18 12P
L2
L3
R1 3.9K
R2 1K
C19 0.01μ
C21 18P
C5
C1
R4 47Ω
L5
C23 5P
0.5V (0V)
C26 7P
D1 1S2076
L7
4.7V (0V)
R7 150Ω
C30
L6
C25
R3 12K
R6 1.5K
1.13V (1.13V)
D2 1S2076
C27 0.01μ
C28 10P
C6
C2
C29 0.04μ
L8
R8 330Ω
C22 0.02μ
C24 330P
C20 0.02μ
C38 0.022μ
C81 0.02μ
C79 0.02μ
C83 0.02μ
C70 7P
R30 220K
S10
C68 100μ/10V
R31 100K
R33 220K
C71 0.01μ
C72 0.02μ
C73 0.0068μ
R41 4.7K
C88 330P
1
2
3
4
5
6
R29 2.7K
C80 0.02μ
R42 10K
R25
C67 10μ/16V
C86 0.022μ
C87 220μ/10V
4.86V (4.9V)
C84 0.022μ
R134 10K(A)
R115 10K(A)
0V "G"
C82 125P
(YEW)
(GRN)
R26
C65
C66
CRB-1
C31 10P
D7 EYV320D/R2JA
1.13V (1.13V)
C69 0.02μ
X3 2SC1417
R10 6.8K
4.68V (4.8V)
1.08V (1.1V)
0.44V (0.5V)
R13 100Ω
CF1
R22 330Ω
S2
MW L9
C7
LW
S3
S4
C36 1000P
C33 18P
C8
SW L10
C11
C3
S5
R45 6.8K
L11
R19 330Ω
S8
R11 1.8K
C39 0.01μ
R12 1.8K
S9
C48 0.0047μ
R15 330Ω
R43 22K
C46 0.01μ
C47 0.0047μ
R14 10Ω
L12
R16 100Ω
R18 330Ω
R23 330Ω
S6
C40 300P
C41 10P
C9
C42 145P
C37 21P
C43 3P
C10
L13
R17 100Ω
C4
C44 3300P
C45 2P
C12
L14
C49
4.82V (4.92V)
R20 100Ω
R21 10K
L15
L16
D4 1N34A
C50
R24 4.7K
C51 0.022μ
L19
L20
D8 1N60(P)
C64
C74
R34 1K
C76 1000P
C75 1000P
R37 4.7K
R36 4.7K
C77 10μ/16V
R35 1K
D9 1N60(P)
R39 2.2K
C85 0.022μ
R27 3.3K
IC-A1201
2.5V (2.5V)
3V (3V)
0.73V (0.73V)
1V (1V)
1.35V (1.35V)
0.63V (0.63V)
0V
C52 0.022μ
C56 0.022μ
C53 68P
C54 0.01μ
C63 0.022μ
R28 180Ω
4.65V (4.75V)
C62 0.022μ
2.15V (2.15V)
0.7V (0.7V)
3V (3V)
4.72V (0.22V)
D5 1N60
4.82V (0.2V)
C57 5P
C61 0.01μ
L17
C55 0.022μ
C35 10μ/16V
D6 1S2076
C58
C59
C60 10μ/16V
L18

NOTE 1 SWITCHES(S1~10) ARE IN FM POSITION.

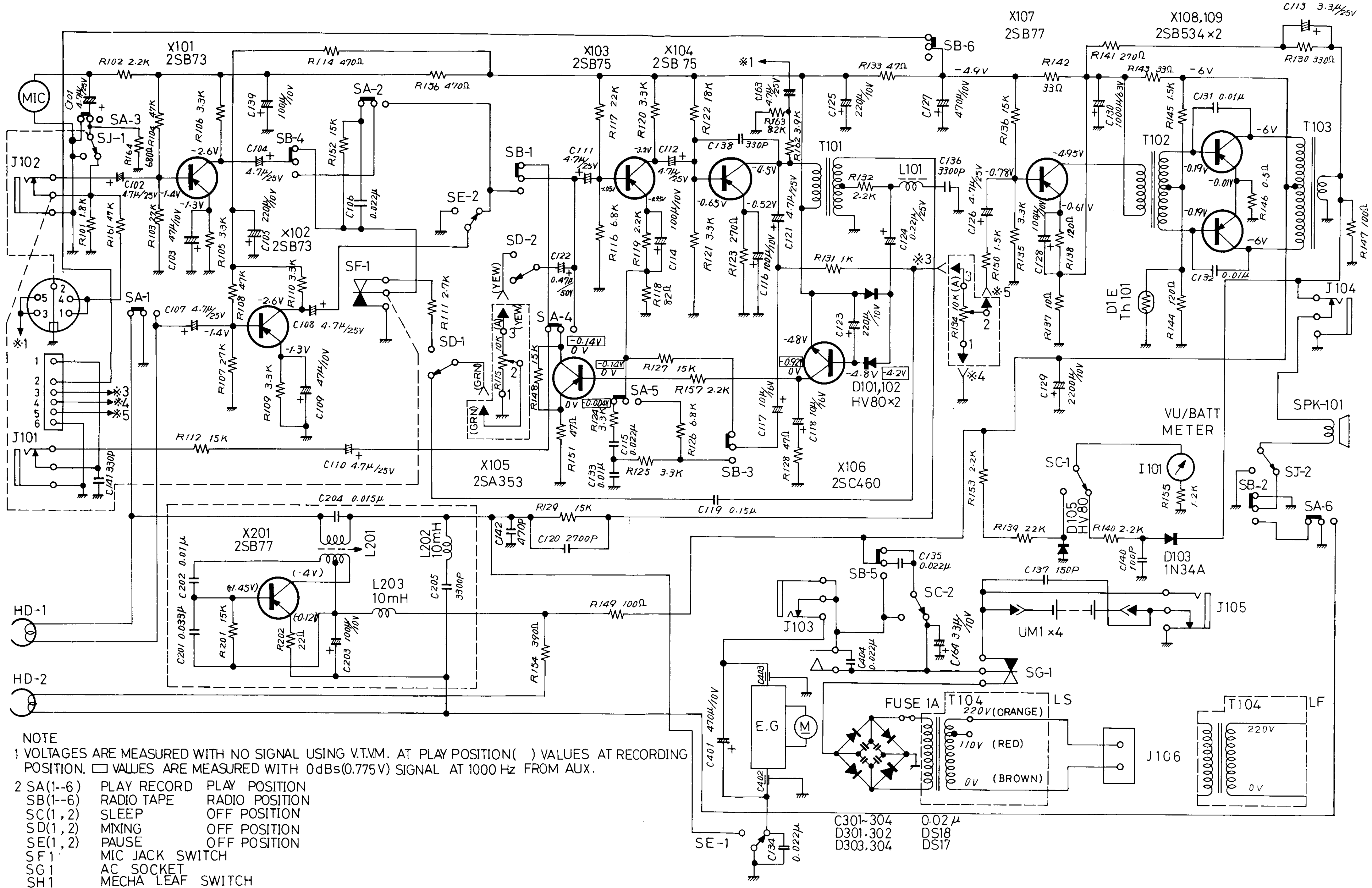
2. BAND SWITCH(P.W.B)

S1
LW SW COM MW FM
S2
S3
S4
S5
S10
S9
S8
S7
S6

3. VOLTAGES ARE MEASURED WITH V.T.V.M. FROM "G" POTENTIAL AT NO SIGNAL CONDITION AND IN POSITIVE VALUE( ) VALUES AT MW POSITION.

4 LAST NO R45, C88

SCHEMATIC DIAGRAM OF 9407LS (AMPLIFIER)


MIC
J102
J101
SA-1
SA-3
SJ-1
X101 2SB73
x102 2SB73
X103 2SB75
X104 2SB 75
X105 2SA353
X106 2SC460
X107 2SB77
X108,109 2SB534×2
X201 2SB77
SA-2
SA-4
SA-5
SB-1
SB-3
SB-4
SB-5
SB-6
SD-1
SD-2
SE-1
SE-2
SF-1
SC-1
SC-2
SG-1
SB-2
SJ-2
SA-6
T101
T102
T103
T104
L101
L201
L202 10mH
L203 10mH
D101,102 HV80×2
D103 1N34A
D105 HV80
D1E Th101
VU/BATT METER
I101
SPK-101
HD-1
HD-2
J103
J104
J105
J106
UM1×4
E.G
M
FUSE 1A
220V (ORANGE)
110V (RED)
0V (BROWN)
LS
LF
220V
0V
C301~304 0.02μ
D301.302 DS18
D303.304 DS17
※1
※3
※4
※5
-4.9V
-6V
-2.6V
-1.3V
-1.4V
-0.65V
-0.52V
-4.5V
-4.8V
-4.95V
-0.78V
-0.61V
-0.19V
-0.01V
(-4V)
(-1.45V)
(-0.12V)
R102 2.2K
R114 470Ω
R136 470Ω
R133 47Ω
R142 33Ω
R141 270Ω
R143 33Ω
R130 330Ω
C113 3.3μ/25V
C204 0.015μ
R129 15K
C119 0.15μ
C120 2700P
C142 470P
R149 100Ω
R154 390Ω
R139 22K
R140 2.2K
C137 150P
C135 0.022μ
C134 0.022μ
C401 470μ/10V
C403
C402
C404 0.022μ

NOTE

1 VOLTAGES ARE MEASURED WITH NO SIGNAL USING V.T.V.M. AT PLAY POSITION( ) VALUES AT RECORDING POSITION. ▭ VALUES ARE MEASURED WITH 0dBs(0.775V) SIGNAL AT 1000 Hz FROM AUX.

2 SA(1--6)	PLAY RECORD	PLAY POSITION
SB(1--6)	RADIO TAPE	RADIO POSITION
SC(1, 2)	SLEEP	OFF POSITION
SD(1, 2)	MIXING	OFF POSITION
SE(1, 2)	PAUSE	OFF POSITION
SF1	MIC JACK SWITCH	
SG1	AC SOCKET	
SH1	MECHA LEAF SWITCH	
SJ (1, 2)	DIN SOCKET SWITCH OFF POSITION	

3·LAST NO. C164 R164

PARTS LIST OF CASSETTE MECHANISM (Refer to Fig. 24)

Dwg. No.	Parts No.	Parts Name	Remarks
57	V44043-001	Spring	
58	SPSP2606Z	Screw	
59	T46257-001	Main Belt	Parts No. changed Interchangeable
60	BF602R-05	Motor	
61	V44032-001	Motor Bracket	
62	V43049-1	Motor Rubber	
63	V43270-1	Collar	misprinted
64	V43463-1	Spacer	
65	03084-476	Felt	misprinted
66	V43101-2	Pack Spring	
67	V44212-001	Leaf Switch	Parts No. changed Note : 3
68	V43941-001	Record Safety Lever	
69	V43968-001	Spring	
70	RDS1900S	"CS" Washer	
71	V44018-00A	Record Plate Ass'y	
72	V43863-001	Collar	
73	WNS2000Z	Washer	
74	V44101-001	Spring	
75	V44037-00A	Reel Disk Ass'y	
76	V41679-11	Spring	
77	V44111-001	〃	
78	V44038-00A	Supply Reel Ass'y	
79	V30712-1	Tape Counter	
80	V44052-00B	Counter Bracket Ass'y	Parts No. changed Note : 4
81	SPSP3006ZS	Screw	
82	V44121-001	Counter Belt	
83	Blank No.		Deleted Note : 4
84	V44050-001	Eject Lever	
85	V44204-001	Brake Arm	Parts No. changed Note : 5
86	V43476-1	Brake Shoe	
87	V44217-001	Brake Arm Spring	Parts No. changed Note : 5
88	V44216-001	Brake Arm Metal	Parts No. changed Note : 5
89	V44074-00A	Case Bracket Ass'y	
90	V43840-001	Stopper	
91	V44136-001	Spring	
92	V30890-00A	Cassette Case Ass'y	
93	V44077-001	Spring (R)	
94	V44076-001	Spring (L)	
95	391291T	Mat Arm Ass'y	Added
96	2680806T	Amp Bracket	Added Note : 2
97	3951005T	FF Idler Arm Metal	Added Note : 1
98	V44138-001	Bracket	Dwg. No. changed
99	SBSB3005Z	Screw	Dwg. No. changed
100	V44180-001	Terminal Lug	Dwg. No. changed
101	SPSP3004Z	Screw	Dwg. No. changed

Note :

1. Dwg. No. 36 should be changed together with No. 97.
2. Dwg. No. 56 should be changed together with No. 96.
3. Dwg. No. 67 is not interchangeable and it differs in size and mounting position.
4. Dwg. Nos. 80 & 83 should be changed simultaneously.
5. Dwg. Nos. 85, 87 & 88 should be changed at the same time.

PARTS LIST OF CABINET . . . . P. 9

Dwg. No.	Parts No.	Parts Name	Remarks
20	SWSP3006ZS	Screw	Changed after serial No. 02610001 Interchangeable
39	QMC0262-002	AC Socket Ass'y	for England
39	QMC0261-101	〃	Other Countries
48	V30888-00B	Toggle Lever Ass'y	Changed after serial No. 12580001 Interchangeable

MAIN PARTS LOCATION . . . . P. 11

Dwg. No.	Parts No.	Parts Name	Remarks
13	QMC0262-002	AC Socket Ass'y	for England
13	QMC0261-101	〃	Other Countries

PARTS LIST OF TUNER CHASSIS . . . . P. 12

Dwg. No.	Parts No.	Parts Name	Remarks
9	V30888-00B	Toggle Lever Ass'y	Changed after serial No. 12580001 Interchangeable

PARTS LIST OF AMP. CHASSIS . . . . P. 13

Dwg. No.	Parts No.	Parts Name	Remarks
7	V30906-001	Switch Holder	misprinted
14	V43957-002	Radiation Plate	Changed after serial No. 12580001
16	V43343-2	〃	〃

Note : Dwg. Nos. 14 & 16 should be changed simultaneously.

ACCESSORIES . . . . P. 17

Parts No.	Parts Name	Remarks
QMP9017-003	Power Cord	for England (without Plug)
QMP7820-183	Power Cord with Plug	Continental type plug (Changed)
QMP3810-183	〃	SEV type approved (Changed)

The Parts List for Replecement

T103	(Output Transformer)	V03075-10 → VTS28E0-33A	Interchangeable
C128	(Electrolytic Capacitor)	QEW41AA-107 → QEW41AA-477D11	
C143	(Electrolytic Capacitor)	QEW41CA-106	Added
C162	(Ceramic Capacitor)	QCY41HK-222	Deleted